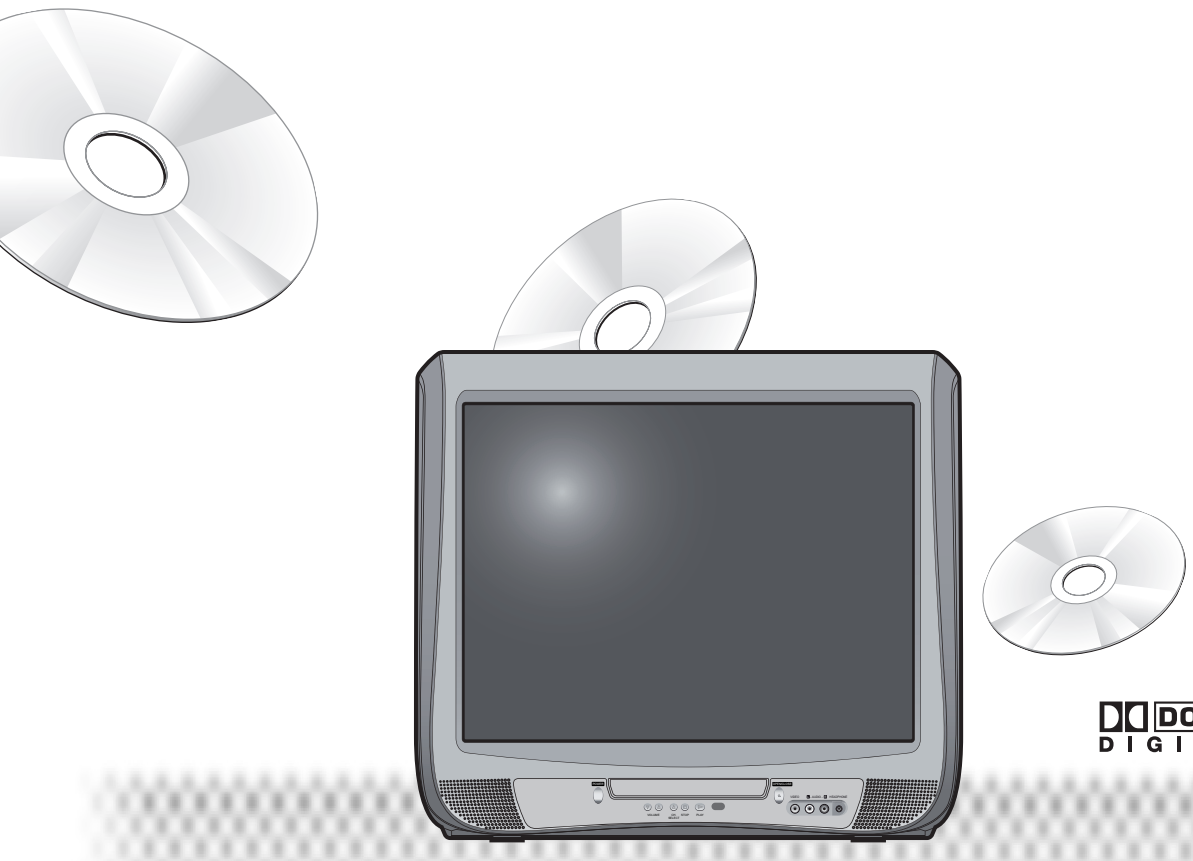
20" Digital / Analog Television built-in DVD Player

Owner's Manual

V7PFDVD20



DOLBY DIGITAL

TO RECEIVE DIGITAL/ANALOG SIGNAL, YOU MUST CONNECT ANTENNA.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The important note is located on the rear of the cabinet.

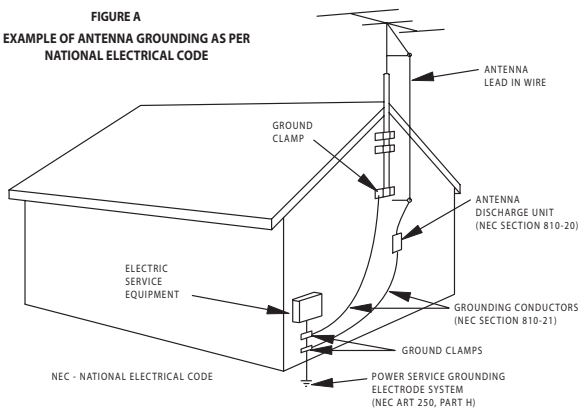
Important Safeguards

1. **READ INSTRUCTIONS** - All the safety and operating instructions should be read before the appliance is operated.
2. **RETAIN INSTRUCTIONS** - The safety and operating instructions should be retained for future reference.
3. **HEED WARNINGS** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **FOLLOW INSTRUCTIONS** - All operating and use instructions should be followed.
5. **CLEANING** - Unplug TV from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
   EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.
6. **ATTACHMENTS** - Do not use attachments not recommended by the TV manufacturer as they may cause hazards.
7. **WATER AND MOISTURE** - Do not use this TV near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. **ACCESSORIES** - Do not place this TV on an unstable cart, stand, tripod, bracket, or table. The TV may fall, causing serious injury to someone, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV.

   Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
   AMEUBLES - Cet appareil ne doit être placé que sur un meuble (avec ou sans roulettes) recommandé par le fabricant. Si vous l'installez sur un meuble à roulettes, déplacez les deux ensembles avec précaution. Un arrêt brusque, l'utilisation d'une force excessive et des surfaces irrégulières risquent de déstabiliser l' ensemble et de le renverser.

9. **VENTILATION** - Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of the TV and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the TV on a bed, sofa, rug, or other similar surface. This TV should never be placed near or over a radiator or heat register. This TV should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. **POWER SOURCES** - This TV should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For TVs intended to operate from battery power, or other sources, refer to the operating instructions.
11. **GROUNDING OR POLARIZATION** - This TV is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
12. **POWER-CORD PROTECTION** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. **OUTDOOR ANTENNA GROUNDING** - If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)

FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
NEC - NATIONAL ELECTRICAL CODE
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

14. **LIGHTNING** - For added protection for this TV receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV due to lightning and power-line surges.
15. **POWER LINES** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light of power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
16. **OVERLOADING** - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

17. **OBJECT AND LIQUID ENTRY** - Never push objects of any kind into this TV through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV.
18. **SERVICING** - Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. **DAMAGE REQUIRING SERVICE** - Unplug this TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a. When the power supply cord or plug is damaged or frayed.
    b. If liquid has been spilled, or objects have fallen into the TV.
    c. If the TV has been exposed to rain or water.
    d. If the TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to its normal operation.
    e. If the TV has been dropped or damaged in any way.
    f. When the TV exhibits a distinct change in performance, this indicates a need for service.
20. **REPLACEMENT PARTS** - When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, injury to persons or other hazards.
21. **SAFETY CHECK** - Upon completion of any service or repairs to this TV, ask the service technician to perform routine safety checks to determine that the TV is in proper operating condition.
22. **HEAT** - This TV product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

☑ Precautions

CAUTION: **ATTENTION:**	TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

FCC WARNING	This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

RADIO-TV INTERFERENCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1) Reorient or relocate the receiving antenna.
2) Increase the separation between the equipment and receiver.
3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4) Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground should be connected to the grounding system of the building as close to the point of cable entry as practical.

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

LOCATION: INSIDE, NEAR THE DECK MECHANISM.

IMPORTANT COPYRIGHT INFORMATION

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

DOLBY DIGITAL

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

LOCATION

For safe operation and satisfactory performance of the unit, keep the following in mind when selecting a place for its installation:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes at the top and bottom of the unit. Do not place the unit on a carpet because this will block the ventilation holes.
- Install the unit in a horizontal position.
- Avoid locations subject to strong vibration.
- Do not place the unit near strong magnetic fields.
- Avoid moving the unit to locations where temperature differences are extreme.
- Be sure to unplug the AC power cord from the outlet before carrying the unit.

TO AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from an AC outlet. Grasp it by the plug.
- If, by accident, water is spilled on the unit, unplug the power cord immediately and take the unit to our authorized service center for servicing.
- Do not put your fingers or objects into the unit or disc tray.
- Do not place anything directly on top of the unit.

MOISTURE WARNING

- Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity.
  When the condensation occurs inside the unit, turn the unit on and leave it at least 2 hours to dry out.

The serial number of this product may be found on the back of the unit. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft.

date of purchase		dealer phone No.		serial No.	
dealer purchase from		model No.		dealer address	

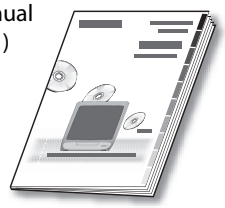
Note about recycling:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

☑ Supplied Accessories

owner's manual
(1EMN22501)



remote control
(NF107UD)

batteries
(AA x 2)

- If you need to replace these accessories, please refer to the part No. with the illustrations and call our toll free customer support line found on the cover of this manual.
- Depending on your antenna system, you may need different types of combiners (mixers) or separators (splitters). Contact your local electronics store for these items.

☑ Symbols Used in this Manual

The following is the description for the symbols used in this manual.
Description refers to:

TV FUNCTIONS	DVD FUNCTIONS
TV : Analog TV operation	DVD : Playback of DVD-video
DTV : Digital TV operation	CD : Playback of audio CD
• If neither symbol appears under the function heading, operation is applicable to both.	• If neither symbol appears under the function heading, operation is applicable to both.

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Limited Warranty ..... Back cover

☑ Features

TV

- **DTV/TV/CATV**
  - You can use your remote control to select channels which are broadcast in digital format and conventional analog format. Also, cable subscribers can access their cable TV channels.
- **Program Information Display (DTV only)**
  - You can display the title, contents and other information of the current DTV program on the TV screen.
- **Auto Channel Scan**
  - This unit automatically scans and memorizes channels available in your area, eliminating difficult setup procedures.
- **V-chip**
  - This feature allows you to block children's access to inappropriate TV programs.
- **Closed Caption Decoder**
  - Built-in closed caption decoder displays text for closed caption supported programming.
- **Auto Shut Off Function**
  - If there is no signal input from the antenna terminal and no operation for 15 minutes, the unit will turn itself off automatically.
- **Sleep Timer**
  - This feature will automatically turned off the power of the unit at a specific time.
- **Choices for On-screen Language**
  - Select your on-screen language: English, Spanish or French.
- **PLL Frequency Synthesized Tuning**
  - Provides free and easy channel selection and lets you tune directly to any channel using the channel number buttons on the remote control.
- **AV Input**
- **Digital Audio Coaxial Output**

DVD

- **Dolby Digital Sound**
  - Enjoy Dolby Digital multi-channel surround sound when you connect the unit to your Dolby Digital decoder.
- **Still / Fast / Slow / Step Playback**
  - Various playback modes are available including still pictures, fast forward/reverse, slow motion and step frames.
- **DVD Menus in a Desired Language**
  - You can display DVD menus in a desired language, if available on a DVD-video.
- **Screen Saver**
  - If there is no operation for 5 minutes, the screen saver program starts. The unit will turn itself off automatically.
- **Parental Lock**
  - Block the viewing of DVD-video unsuitable for children.
- **Resume Playback**
  - Lets you resume playback from the point at which playback was stopped.
- **Bit Rate Indication**
- **DRC (dynamic range control)**
  - You can control the range of sound volume.

➡ Accessing from [MODE] button

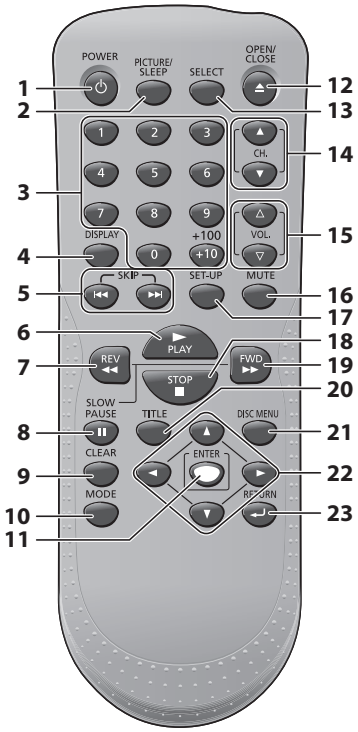
During playback...

- **Choices for Audio Language and Stereo Sound function**
  - Select your desired language or stereo sound function when different options are available on your disc.
- **Subtitles in a Desired Language**
  - You can select a desired language for displaying subtitle, if that language is available on a DVD-video.
- **Selecting a Camera Angle**
  - You can select the desired camera angle, if a DVD contains sequences recorded from different angles.
- **Zoom**
  - Allows you to enlarge the size of picture image.
- **Black Level Adjustment**
- **Virtual Surround**
- **Search**
  - chapter / title / track / time
- **Marker**
  - The part on the disc designated by user can be called back.
- **Repeat**
  - chapter / title / track / all / A-B

In stop mode...

- **Program Playback for audio CD**
  - You can program the order of tracks to play them back in designated order.
- **Random Playback for audio CD**
  - This unit can shuffle the order of tracks to play them back in randomly.

☑ Remote Control Function



1. **POWER ⏻ button** (p11)
   Press to turn the unit on and off.
2. **PICTURE/SLEEP button** (p15 / p16)
   - Press to adjust the picture quality.
   - Press to activate the sleep timer.
3. **Number buttons** (p13)
   Press to select channels.
   +10/+100 button
   - Press to select 100 or higher channels. (CATV)
   - Press to search if there are minor channels on the currently selected major channel. (DTV)
4. **DISPLAY button** (p14)
   Digital Mode (DTV)
   - Press to display the channel number and the program information.

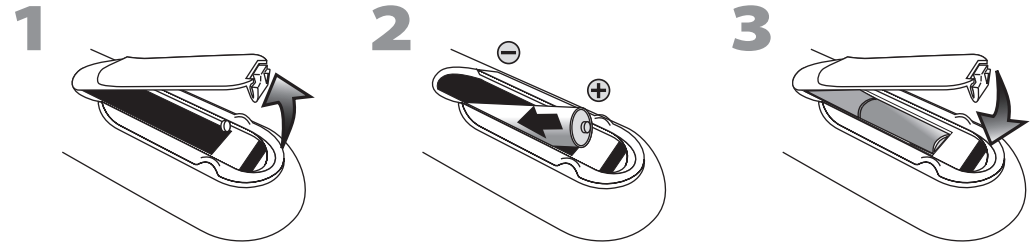
   Analog Mode (TV)
   - Press to display the channel number.

   External Input Mode
   - Press to display the currently selected external input mode.

   DVD mode
   - Press to display the current status (DVD, CD).
5. **SKIP |◀◀ / ▶▶| button** (p25)
   Press to skip forward or backward chapters, titles (DVD) or tracks (CD).
6. **PLAY ▶ button** (p23)
   Press to begin disc playback.
7. **REV ◀◀ button** (p24)
   Press to begin the slow reverse playback during the pause mode (DVD) and the search backward through a disc.
8. **PAUSE ❚❚ button** (p23)
   Press to pause the disc playback.
9. **CLEAR button** (p26)
   - Press to clear the numbers entered incorrectly.
   - Press to cancel the point A for A-B repeat (DVD, CD).
   - Press to remove the track number in program input (CD).
10. **MODE button** (p6)
    - Press to arrange the playing order or play back randomly (CD).
    - Press to set the black level (DVD) and virtual surround (DVD, CD) on or off.
    - Press to change the camera angle to see the sequence being played back from different angle (DVD).
    - Press to search chapter, title (DVD), time (DVD, CD) or track (CD).
    - Press to set the marker (DVD, CD).
    - Press to repeat playback chapter, title (DVD), or track, disc (CD) repeatedly or between designated point A and B (DVD, CD).
    - Press to select the audio language (DVD), or sound mode (CD).
    - Press to magnify the part of picture (approx. 1.3x, 2x and 4x : DVD).
    - Press to select the subtitles on a disc (DVD).
11. **ENTER button** (p12)
    Press to confirm your selection.
12. **OPEN/CLOSE ⏏ button** (p23)
    Press to open or close the disc tray.
13. **SELECT button** (p14)
    - Press to access a connected external device like a video game, camcorder or VCR.
    - Press to select the digital, analog, external input or DVD mode.
14. **CH. ▲ / ▼ buttons** (p13)
    Press to select channels.
15. **VOL. △ / ▽ buttons** (p13)
    Press to adjust the volume.
16. **MUTE button** (p13)
    Press to turn the sound on and off.
17. **SET-UP button** (p11)
    Press to display the main menu.
18. **STOP ■ button** (p23)
    Press to stop the disc playback.
19. **FWD ▶▶ button** (p24)
    Press to begin the slow forward playback during the pause mode (DVD) and the search forward through a disc.
20. **TITLE button** (p23)
    Press to call up the title menu on a DVD.
21. **DISC MENU button** (p23)
    Press to call up the disc menu on a DVD.
22. **◀ / ▶ / ▲ / ▼ buttons** (p12)
    Press to move left/ right/ up/ down through the items.
23. **RETURN ↩ button** (p26)
    Press to return to the previous menu operation.

☑ Installing the Batteries

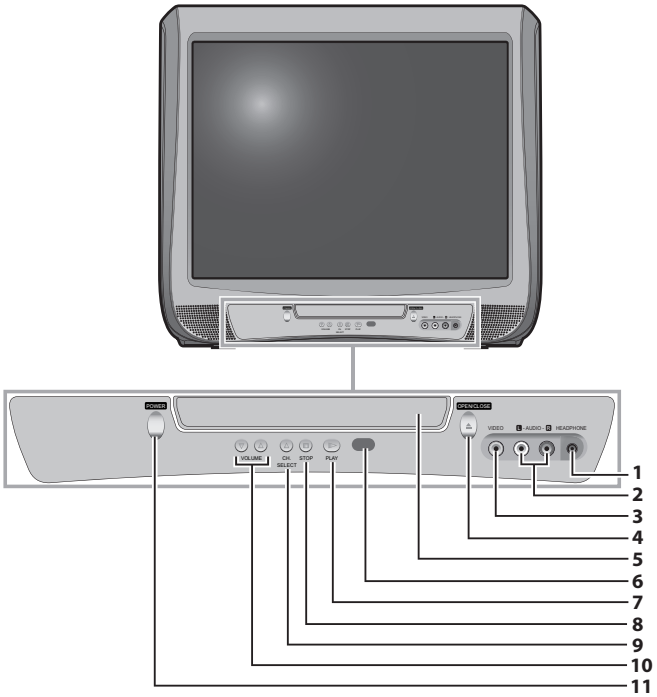
Install the batteries (AA x 2) matching the polarity indicated inside battery compartment of the remote control.



Battery Precautions:

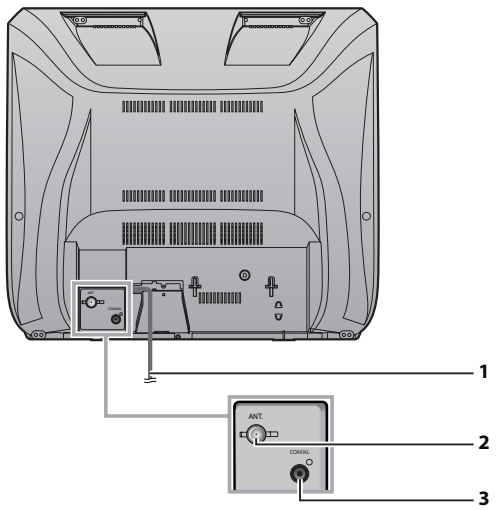
- *Be sure to follow the correct polarity as indicated in the battery compartment. Reversed batteries may cause damage to the device.*
- *Do not mix different types of batteries together (e.g., Alkaline and Carbon-Zinc) or old batteries with fresh ones.*
- *If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.*
- *Do not try to recharge batteries; they can overheat and rupture.*

☑ Control Panel



1. **HEADPHONE jack**
   Headphone connection for personal listening.
2. **AUDIO input jacks** (p10)
   RCA audio cable connection for an external device.
3. **VIDEO input jack** (p10)
   RCA video cable connection for an external device.
4. **OPEN/CLOSE ⏏ button** (p23)
   Press to open or close the disc tray.
5. **Disc Tray** (p23)
   Place the disc with label facing up.
6. **Infrared Sensor Window**
   Receives infrared rays transmitted from the remote control.
7. **PLAY ▶ button** (p23)
   Press to begin disc playback.
8. **STOP ■ button** (p23)
   Press to stop disc playback.
9. **CH. SELECT ▲ button** (p13)
   Press to select higher channels than currently viewing channel and external input mode.
10. **VOLUME △/▽ buttons** (p13)
    Press to adjust the volume.
11. **POWER button** (p11)
    Press to turn the unit on and off.

☑ Rear Panel



1. **AC Power Cord**
   Connect to a standard AC outlet to supply power to this unit.
2. **ANT. input jack** (p9)
   RF coaxial cable connection for your antenna or cable/satellite box.
3. **COAXIAL (digital audio) output jack** (p10)
   Digital audio coaxial cable connection for a decoder or an audio receiver.

Cables not included.

Please purchase the necessary cables at your local store.

☑ Basic Connection

This section describes how to connect the unit to an antenna, cable/satellite box, etc.

Note:

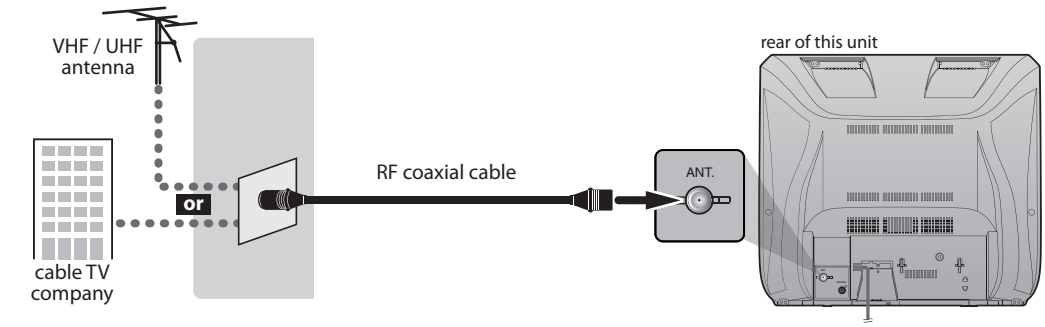
• Be sure your antenna or other device is connected properly before plugging in the power cord.

[Antenna Cable Connection]

When connecting the unit to an antenna or cable TV company (without cable/satellite box)

Connect the RF coaxial cable on your home outlet to the antenna input jack of this unit.

e.g.)



*Once connections are completed, turn on the unit and begin initial setup.
Channel scanning is necessary for the unit to memorize all available channels in your area.
(Refer to "Initial Setup" on page 11.)

Note:

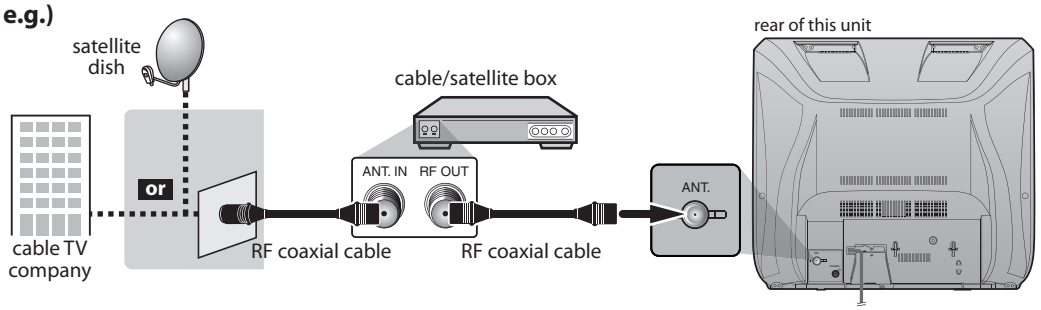
• For your safety and to avoid damage to device, please unplug the RF coaxial cable from the antenna input jack before moving the unit.
• If you use an antenna to receive analog TV, it should also work for DTV reception. Outdoor or attic antennas will be more effective than settop versions.
• To easily switch your reception source between antenna and cable, install an antenna selector.
• If you connect to the cable system directly, contact the CATV installer.

[Connection to Cable Box or Satellite Box]

Connect the RF coaxial cable on your home outlet to the input jack of the cable/satellite box.

Use another RF coaxial cable to connect the antenna input jack of the unit to the output jack of the cable/satellite box.

e.g.)



*Required cables and connecting methods differ depending on the cable/satellite box.
For more information, please contact your cable/satellite provider.

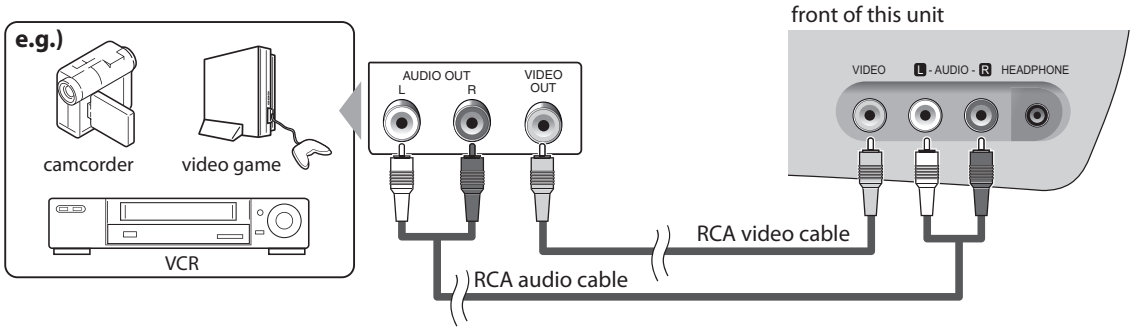
Cables not included.

Please purchase the necessary cables at your local store.

☑ External Device Connection

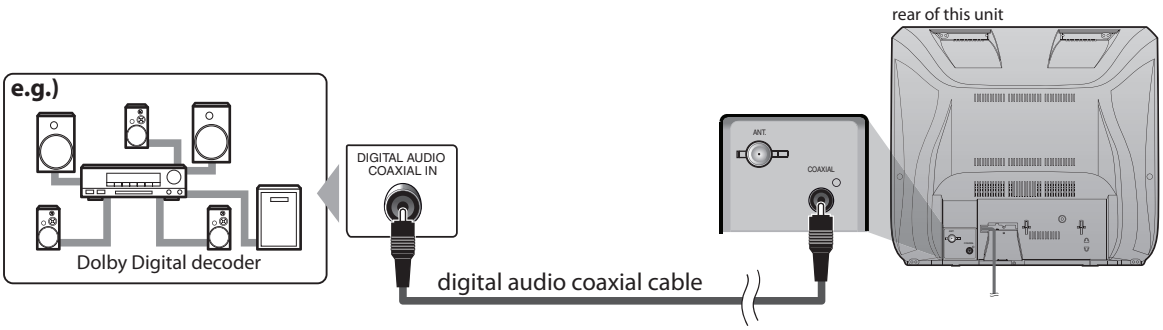
[Video Cable Connection]

When you connect this unit to an external device, use the audio/video input jacks on the front of this unit.
Make the connection as illustrated below.
When the audio jack of the video device is monaural, connect the RCA audio cable to the audio L input jack.



[Digital Audio Output Connection]

If you connect this unit to an external digital audio device, you can enjoy multi-channel audio like 5.1ch digital broadcasting sound.



These operations are accessible by remote control. Some may also be accessible by controls on the main unit.

TV Functions

☑ Initial Setup

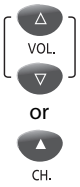
This section will guide you through the unit's initial setting which includes selecting a language for your on-screen menu and "AUTO PRESET CH", which automatically scans and memorizes viewable channels.

Before you begin:
Make sure if the unit is connected to antenna or cable.

1 After making all the necessary connections, press **[POWER ⏻]** to turn on the unit.

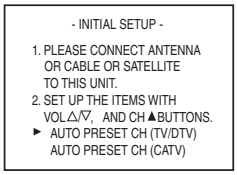
• This operation may take a few moments.

2 Use **[VOL. △/▽]** or **[CH. ▲]** to select the on-screen language from the choices on the left side of the TV screen. (ENGLISH / ESPAÑOL / FRANÇAIS)

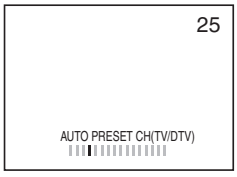


• Press **[VOL. ▽]** for English.
• Press **[VOL. △]** for Spanish.
• Press **[CH. ▲]** for French.

3 Use **[VOL. △/▽]** to select "AUTO PRESET CH(TV/DTV)" for TV channels or "AUTO PRESET CH(CATV)" for CATV channels, then press **[CH. ▲]**.


- INITIAL SETUP -
1. PLEASE CONNECT ANTENNA OR CABLE OR SATELLITE TO THIS UNIT.
2. SET UP THE ITEMS WITH VOL.△/▽, AND CH.▲BUTTONS.
► AUTO PRESET CH (TV/DTV)
AUTO PRESET CH (CATV)

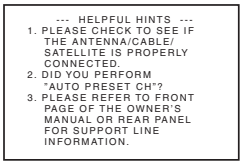
• Scanning and memorizing the channels automatically start.



• When the scanning and memorizing are completed, the lowest memorized channel in the broadcasting will be displayed.

Note:

- *If you connect the cable system directly, contact the CATV installer.*
- *If you press **[POWER ⏻]** or **[SET-UP]** during "AUTO PRESET CH", this setting will be canceled.*
- *The initial auto channel scan function can be executed for either TV/DTV or CATV only once. If you want to scan both TV/DTV and CATV, you need to select "CHANNEL SETUP" in the main menu to scan and memorize other channels after initial presetting is completed. (Refer to page 12.)*
- *You can cancel or exit the initial "AUTO PRESET CH" menu by pressing **[SET-UP]**.*
- *When no channel can be received by "AUTO PRESET CH", "NO TV SIGNALS" is displayed on the TV screen.*
- *If there is no signal input from the antenna terminal and no operation for more than several seconds after you turn on the unit, "HELPFUL HINTS" appears. Follow the instructions listed on the TV screen.*

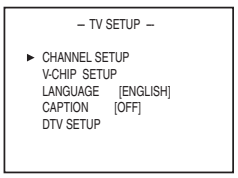

--- HELPFUL HINTS ---
1. PLEASE CHECK TO SEE IF THE ANTENNA/CABLE/ SATELLITE IS PROPERLY CONNECTED.
2. DID YOU PERFORM "AUTO PRESET CH"?
3. PLEASE REFER TO FRONT PAGE OF THE OWNER'S MANUAL OR REAR PANEL FOR SUPPORT LINE INFORMATION.

☑ Main Menu

This section describes the overview of the main menu displayed when you press [SET-UP].
For more details, see the reference page for each item.
The main menu consists of the function setting items below.

Press **[SET-UP]**.

e.g.) digital TV mode



- **CHANNEL SETUP**
  You can automatically scan the viewable channels and remove those that are undesired.
  (Refer to "Auto Channel Scan" on page 12.)
- **V-CHIP SETUP**
  You can set the viewing limitations.
  (Refer to "V-chip" on page 19.)
- **LANGUAGE**
  You can change the language (English, Spanish or French) displayed on the main menu.
  (Refer to "Language Selection" on page 12.)
- **CAPTION**
  You can change the display format for closed caption, which displays the dialogue of a TV program or other information across the TV screen.
  (Refer to "Closed Caption" on page 17.)
- **DTV SETUP**
  You can set the screen display or caption in the DTV mode. (Refer to "DTV Closed Caption" on page 18.)

☑ Auto Channel Scan

If you switch wires (e.g., between antenna and CATV) or if you move the unit to a different area after the initial setting, or if you recover the DTV channel you deleted, you will need to perform auto channel scan.

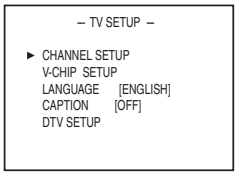
Before you begin:

Make sure if the unit is connected to antenna or cable.

1 Press **[SET-UP]** to display the main menu.

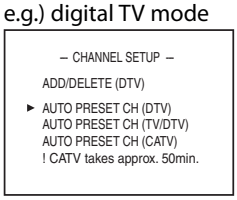
2 Use **[Cursor ▲/▼]** to select "CHANNEL SETUP", then press **[ENTER]**.

e.g.) digital TV mode



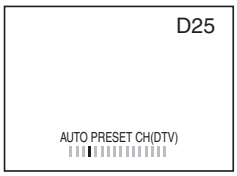
3 Use **[Cursor ▲/▼]** to select your desired preset type, then press **[ENTER]**.

e.g.) digital TV mode



- When aerial antenna is connected, select "AUTO PRESET CH (TV)", "AUTO PRESET CH (DTV)" or "AUTO PRESET CH (TV/DTV)".
- When connected to CATV, select "AUTO PRESET CH (CATV)".
- Scanning and memorizing the channels automatically start.

e.g.) digital TV mode



- When the scanning and memorizing are completed, the lowest memorized channel will be displayed.
- When you selected "AUTO PRESET CH (TV/DTV)", the lowest memorized analog channel will be displayed when the scanning and memorizing are completed. If there is no analog channel, the lowest memorized digital channel will be displayed.

Note:

- *If you connect the cable system directly, contact the CATV installer.*
- *If you press **[POWER ⏻]** or **[SET-UP]** during "AUTO PRESET CH", the setting will be canceled.*
- *When no channel can be received by "AUTO PRESET CH", "NO TV SIGNALS" is displayed on the TV screen.*
- *Channel setting will be saved even if the power fails.*
- *If you have Spanish or French menus and need English, press **[SET-UP]**. Use **[Cursor ▲/▼]** to select "IDIOMA" or "LANGAGE". Press **[ENTER]** to select "ENGLISH". Press **[SET-UP]** to remove the main menu.*
- *With regard only to the digital channel, even after the scanning is complete if you unplug the AC power cord before turning off the unit by pressing **[POWER ⏻]**, the channel setting may be lost.*

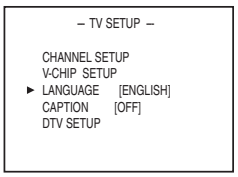
☑ Language Selection

You can choose English, Spanish, or French as your on-screen language.

1 Press **[SET-UP]** to display the main menu.

2 Use **[Cursor ▲/▼]** to select "LANGUAGE", then press **[ENTER]** repeatedly to change the setting.

e.g.) digital TV mode



3 Press **[SET-UP]** to exit.

☑ Channel Selection

Select channels by pressing [CH. ▲ / ▼] or [the Number buttons].

- To select the memorized channels, use **[CH. ▲ / ▼]** or **[the Number buttons]**.
- To select the non-memorized channels, use **[the Number buttons]**.

To use [the Number buttons]

TV

- When selecting analog channel 12

1 ➔ 2

DTV

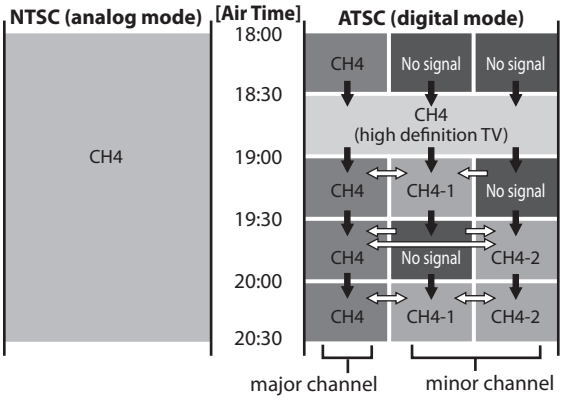
- When selecting digital channel 12-1

1 ➔ 2 ➔ 1

- When you select a channel larger than 100, press **[+10/+100]** first. Then use **[the Number buttons]** to press the lower 2-digit numbers.

About digital TV broadcasting:
With its high definition broadcast, digital broadcasting far surpasses analog broadcasting in both its picture and sound quality.

What is the minor channel?
By using high compression technology, digital broadcasting offers a service that enables multiple signals to send simultaneously.
Therefore, you can select more than one program per major channel since digital broadcasting technology distinguishes between multiple channels broadcast by a single network.



➔ : change automatically
⇨ : change manually by using **[CH. ▲/▼]**

Although, you cannot watch the high definition TV (HDTV) program, the unit converts the HDTV signal down to the standard definition TV signal.

Note:
• "NO SIGNAL" will appear on the TV screen after the minor channel broadcast is over.

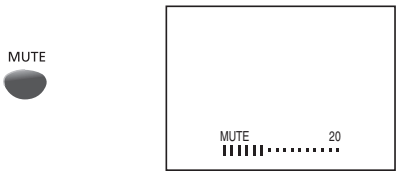
☑ Volume Adjustment

This section describes how to adjust the volume. The mute function, which turns the sound off and on, is also described.

Use **[VOL. △ / ▽]** to adjust the audio volume.

- The volume bar will be displayed at the bottom of the TV screen when adjusting the volume.
- The volume bar display will automatically disappear in a few seconds.

Press **[MUTE]** to turn off and on the sound.



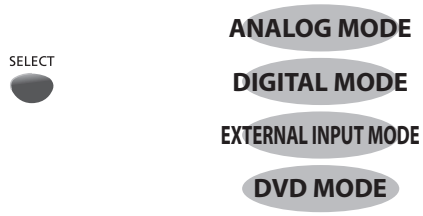
- "MUTE" is displayed on the TV screen.

Press **[MUTE]** again or **[VOL. △ / ▽]** to recover the original volume.

☑ Switching Each Mode

You can easily switch with the remote control to the DTV (ATSC), TV (NTSC) and DVD mode or to access an external device when they are connected to the unit.

Press **[SELECT]** repeatedly to cycle through the input mode.



- To use the video input jack on the front of the unit, select "VIDEO".

Note:

- *When you switch the analog mode to the digital mode, it may take a while until the digital channel selection is completed. The following TV screen is displayed while switching the mode.*

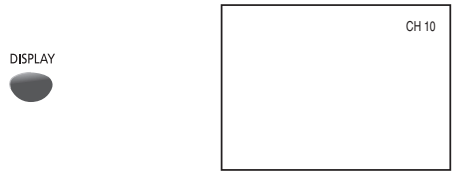
☑ Screen Information

You can display the currently selected channel or other information such as the audio mode on the TV screen.

TV

In the analog mode, the current channel number is displayed.

Press **[DISPLAY]**.

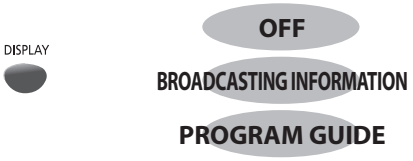


- The current channel number is displayed at the top-right corner of the TV screen.
- To clear the display, press **[DISPLAY]** again.

DTV

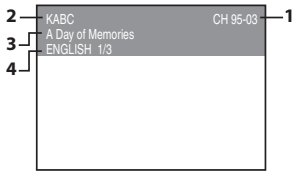
In the digital mode, the detailed broadcasting information for the current channel such as program title, the program guides are displayed.

Press **[DISPLAY]** repeatedly to cycle through the available display modes.



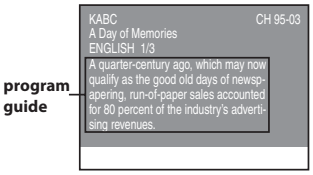
[Broadcasting Information]

- The following information is displayed.
  1 channel number
  2 broadcast station
  3 program title
  4 audio language
  Press **[MODE]** repeatedly to cycle through the available audio languages.
  ("OTHER" is displayed when the audio language cannot be acquired, or the acquired languages are other than English, Spanish or French.)



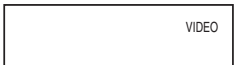
[Program Guide]

- The program guide added to broadcasting information is displayed.


program guide
KABC
CH 95-03
A Day of Memories
ENGLISH 1/3
A quarter-century ago, which may now qualify as the good old days of newspapering, run-of-paper sales accounted for 80 percent of the industry's advertising revenues.

Note:

- *When the program guide consists of more than 6 lines, use **[Cursor ▲/▼]** to scroll.*
- *"No description provided" is displayed when the program guide is not provided.*
- *While the program guide is displayed, the closed caption function is interrupted.*
- *In external input mode, the following screen is displayed;*
  e.g.) When an external device is connected to video input jack.



- *Available languages differ depending on the broadcast.*
- *The information display will automatically disappear in a few seconds when the closed caption is on.*
- *Pressing **[MODE]** does not control external audio device.*

☑ TV Screen Display Mode

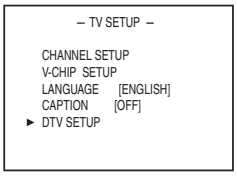
DTV

2 types of display modes can be selected in the digital mode when the broadcasting station is sending 16:9 video signal.

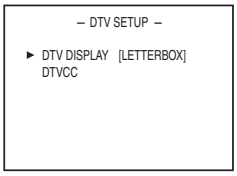
1 Press **[SET-UP]** to display the main menu.

2 Use **[Cursor ▲/▼]** to select "DTV SETUP", then press **[ENTER]**.

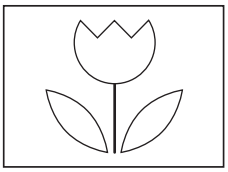
e.g.) digital TV mode



3 Use **[Cursor ▲/▼]** to select "DTV DISPLAY", then press **[ENTER]** repeatedly to switch the desired TV aspect ratio.



LETTERBOX



ZOOM

[LETTERBOX]
Display the digital-supported program in full-screen. Black borders will spread in the upper and lower screen.

[ZOOM]
Enlarge and display the center area of the digital-supported program.

The right and left side of image will be cut off.

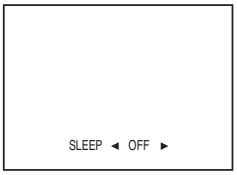
4 Press **[SET-UP]** to exit.

Note:
- *You may not switch the display mode depending on the program.*

☑ Sleep Timer

The sleep timer can be set to automatically turn off the unit after an incremental period of time.

1 Press **[PICTURE/SLEEP]** once.



- Sleep timer menu appears on the TV screen.

2 Use **[Cursor ◄/►]** to change the amount of time until turn off the unit.

- You can set the unit to turn off after a set period of time (from 30 to 120 minutes).
- Each time you press **[Cursor ◄/►]**, the amount of time will increase or decrease by 30 minutes.
- After set up, the sleep timer menu can be called up for checking by pressing **[PICTURE/SLEEP]**.

To Cancel the Sleep Timer
Use **[Cursor ◄/►]** at step 2 until "OFF" is displayed on the TV screen.

Note:
- *The sleep timer setting display will automatically disappear in a few seconds.*
- *When you disconnect the unit from the AC outlet or when a power failure occurs, the sleep timer setting will be canceled.*

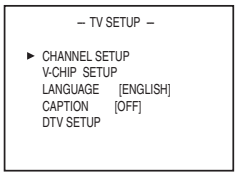
☑ Channel Add/Delete

The channel add/delete function lets you add the channel that was not added by the auto channel scan due to the reception status at the initial setting. You can also delete the unnecessary channels.

1 Press **[SET-UP]** to display the main menu.

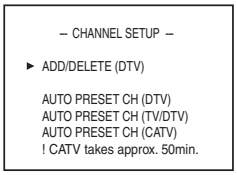
2 Use **[Cursor ▲/▼]** to select "CHANNEL SETUP", then press **[ENTER]**.

e.g.) digital TV mode



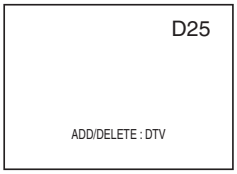
3 Use **[Cursor ▲/▼]** to select "ADD/DELETE(DTV)" or "ADD/DELETE", then press **[ENTER]**.

e.g.) digital TV mode



4 Select the channel you want to add or delete. (Refer to "Channel Selection" on page 13.)

e.g.) digital TV mode



5 Press **[ENTER]** repeatedly to select "ADD" or "DELETE".

- To add or delete another channels, repeat steps 4 to 5.
- Color of channel number displayed at the right top of the TV screen indicates;

  - Blue: The selected channel will be added.
  - Red: The selected channel will be deleted.

6 Press **[SET-UP]** to exit.

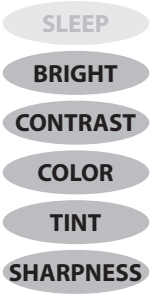
Note:

- *"ADD/DELETE (DTV)" or "ADD/DELETE" menu will disappear automatically in a few seconds.*
- *In the digital mode (DTV), you can add or delete channels only for major channel.*
- *Once you delete a DTV channel, you cannot recover the channel without performing auto channel scan again. (Refer to "Auto Channel Scan" on page 12.)*

☑ Picture Adjustment

You can adjust brightness, contrast, color, tint and sharpness.

1 Press **[PICTURE/SLEEP]** repeatedly until the desired picture menu appears.



2 Within 10 seconds, use **[Cursor ◄/►]** to adjust the quality.

	[Cursor ◄]	[Cursor ►]
BRIGHT	to decrease brightness	to increase brightness
CONTRAST	to decrease contrast	to increase contrast
COLOR	to decrease color	to brighten color
TINT	to add purple	to add green
SHARPNESS	to make soft	to make clear

Note:

- *The picture adjustment setting display will automatically disappear in a few seconds.*

☑ Closed Caption

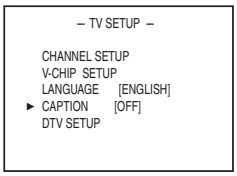
TV

You can view closed captioning (cc) for TV programs, movies and news. Closed caption refer to text of dialogue or descriptions displayed on-screen for the hearing impaired.

1 Press **[SET-UP]** to display the main menu.

2 Use **[Cursor ▲/▼]** to select "CAPTION", then press **[ENTER]** repeatedly to change the setting.

e.g.) digital TV mode



OFF
CAPTION1
CAPTION2
TEXT1
TEXT2

CAPTION1 and TEXT1;
are the primary caption and text services. The captioning or text is displayed in the same language as the program's dialogue (up to 4 lines of script on the TV screen, where it does not obstruct relevant parts of the picture).

CAPTION2 and TEXT2;
are rarely available and broadcasters use them only in special conditions, such as when "CAPTION1" or "TEXT1" is not available.

• There are 3 display modes according to programs:

Paint-on mode: Displays input characters on the TV screen immediately.
Pop-on mode: Once characters are stored in memory, they are displayed all at once.
Roll-up mode: Displays the characters continuously by scrolling (max. 4 lines).

3 Press **[SET-UP]** to exit.

Note:

- *To show the closed caption on your TV screen, broadcast signal must contain the closed caption data.*
- *Not all TV programs and commercials have the closed caption or all types of the closed caption.*
- *Captions and texts may not match the TV voice exactly.*
- *Changing channels may delay the closed caption for a few seconds.*
- *Adjusting or muting the volume may delay the closed caption for a few seconds.*
- *Abbreviations, symbols and other grammatical shortcuts may be used in order to keep pace with the on-screen action. This is not a problem with the unit.*
- *The caption or text characters will not be displayed while the main menu or functions display is shown.*
- *If a black box appears on the TV screen, this means that the closed caption is set to the text mode. To clear the box, select "CAPTION1", "CAPTION2" or "OFF".*
- *If the unit receives poor quality television signals, the captions may contain errors, or there might be no captions at all. Some possible causes of poor quality signals are:*
  - Automobile ignition noise
  - Electric motor noise
  - Weak signal reception
  - Multiplex signal reception (ghosts or screen flutter)
- *The unit retains the closed caption setting if the power fails.*
- *When your TV receives a special effects playback signal (i.e., Search, Slow and Still) from a VCR's video output channel (CH3 or CH4), the TV may not display the correct caption or text.*

☑ DTV Closed Caption

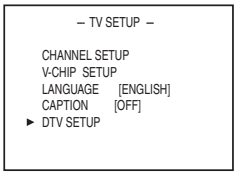
DTV

In addition to the basic closed caption described on page 17, DTV has its own closed caption called DTVCC. Use this menu to change the settings for DTVCC.

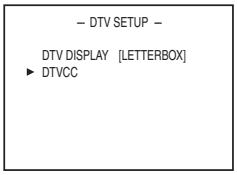
1 Press **[SET-UP]** to display the main menu.

2 Use **[Cursor ▲/▼]** to select "DTV SETUP", then press **[ENTER]** .

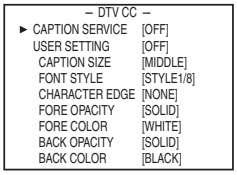
e.g.) digital TV mode



3 Use **[Cursor ▲/▼]** to select "DTVCC", then press **[ENTER]** .



4 Use **[Cursor ▲/▼]** to select "CAPTION SERVICE", then press **[ENTER]** repeatedly to change the setting.



CAPTION SERVICE	OFF	Select if you do not want DTVCC. This is the default.
	SERVICE1~6	Select one of these before changing any other item in "CAPTION" menu. Choose "SERVICE1/6" under normal circumstances.

5 Press **[SET-UP]** to exit.

Note:

• "CAPTION SERVICE" that you can switch differs depending on the broadcast description.

☑ DTVCC Style

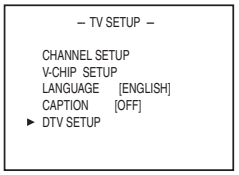
DTV

You can change the style of DTV CC such as font, color or size, etc.

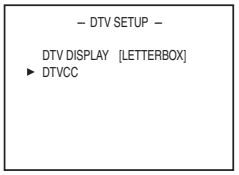
1 Press **[SET-UP]** to display the main menu.

2 Use **[Cursor ▲/▼]** to select "DTV SETUP", then press **[ENTER]**.

e.g.) digital TV mode

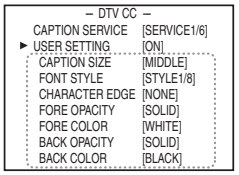


3 Use **[Cursor ▲/▼]** to select "DTVCC", then press **[ENTER]** .

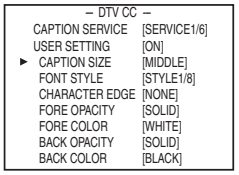


4 Use **[Cursor ▲/▼]** to select "USER SETTING", then press **[ENTER]** repeatedly to set to "ON".

• Items in the dotted box are available only when "USER SETTING" is "ON".



5 Use **[Cursor▲/▼]** to select an item, then press **[ENTER]** repeatedly to change the setting for the item.



- **CAPTION SIZE**
  Closed captioning font size can be changed as below.
- **FONT STYLE**
  Font style of the displayed caption can be switched as below.
- **CHARACTER EDGE**
  Edge type of the displayed caption can be switched as below.
- **FORE COLOR, BACK COLOR**
  Font and background color of the displayed caption can be switched as below.
- **FORE OPACITY, BACK OPACITY**
  Font and background opacity of the displayed caption can be switched as below.

CAPTION SIZE	MIDDLE, LARGE, SMALL	
FONT STYLE	STYLE1/8	Proportional font used in the menu screen
	STYLE2/8	Monospaced with serifs
	STYLE3/8	Proportionally spaced with serifs
	STYLE4/8	Monospaced with serifs
	STYLE5/8	Proportionally spaced without serifs
	STYLE6/8	Casual font type
	STYLE7/8	Cursive font type
	STYLE8/8	Small capitals
CHARACTER EDGE	NONE, RAISED, DEPRESSED, UNIFORM, SHADOW LEFT, SHADOW RIGHT	
FORE OPACITY	SOLID, TRANSLUCENT, FLASH	
FORE COLOR	WHITE, BLACK, RED, GREEN, BLUE, YELLOW, MAGENTA, CYAN, TRANSPARENT	
BACK OPACITY	SOLID, TRANSLUCENT, FLASH	
BACK COLOR	BLACK, RED, GREEN, BLUE, YELLOW, MAGENTA, CYAN, TRANSPARENT, WHITE	

6 Press **[SET-UP]** to exit.

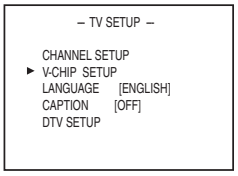
☑ V-chip

V-chip reads the ratings for programs, then denies access to the programs which exceed the rating level you set. With this function, you can block certain programming inappropriate for children.

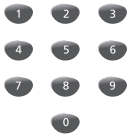
1 Press **[SET-UP]** to display the main menu.

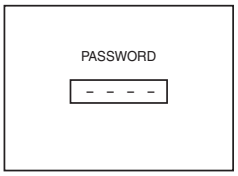
2 Use **[Cursor ▲/▼]** to select "V-CHIP SETUP", then press **[ENTER]**.

e.g.) digital TV mode



3 Use **[the Number buttons]** to enter the 4-digit numbers for your password.





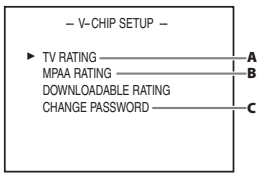
- When you have not set up your password, enter 0000.
- When the password is correct, the following "V-CHIP SETUP" menu is displayed.

e.g.) digital TV mode

A···**"A. TV Rating"** ⇨ page 20

B···**"B. MPAA Rating"** ⇨ page 21

C···**"C. Change Password"** ⇨ page 21



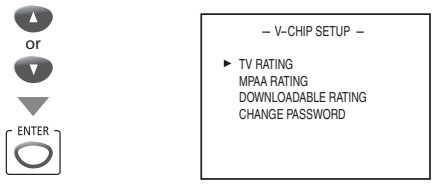
Note:

- *"DOWNLOADABLE RATING" will be available when the unit receives a digital broadcast using the new rating system.*
- *When you select a rating and set it to "BLOCK", the higher ratings will be blocked automatically. The lower ratings will be available for viewing.*
- *When you set the highest rating to "VIEW", all ratings turn to "VIEW" automatically.*
- *If the "PROTECTED PROGRAM" message appears during your TV viewing, change to a channel that is not blocked. Then, you can access "V-CHIP SETUP" menu and change the setting to allow all TV viewing.*
- *To block any inappropriate programming, set your limits in both "TV RATING" and "MPAA RATING".*
- *The V-chip setting will be retained after a power failure (except the access code reverts to 0000).*

A. TV Rating

4 Use **[Cursor ▲/▼]** to select "TV RATING", then press **[ENTER]**.

e.g.) digital TV mode



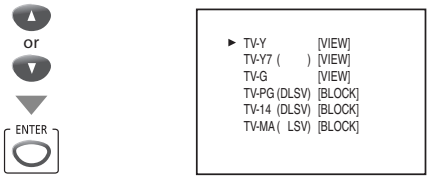
5 Use **[Cursor ▲/▼]** to select the desired rating, then press **[ENTER]** repeatedly to switch between "VIEW" and "BLOCK".

Rating	Category	
TV-Y	Appropriate for all children	**lower**
TV-Y7	Appropriate for all children 7 and older	
TV-G	General audience	
TV-PG	Parental guidance suggested	
TV-14	Unsuitable for children under 14	
TV-MA	Mature audience only	**higher**

[To Set the Sub Ratings]

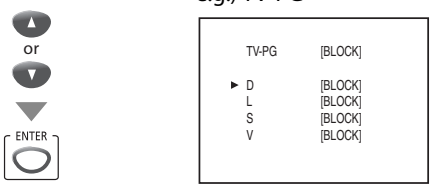
As for TV-Y7, TV-PG, TV-14 or TV-MA, you can further set the sub ratings to block specific elements of programming. To set the sub ratings, follow the steps below.

1 Use **[Cursor ▲/▼]** to select the desired main rating, then press **[ENTER]** twice to show its sub ratings.



2 Use **[Cursor ▲/▼]**, then press **[ENTER]** repeatedly to change the setting.

e.g.) TV-PG



Sub Rating	Category	Rating
FV	Fantasy Violence	TV-Y7
V	Violence	TV-PG TV-14 TV-MA
S	Sexual Situation	
L	Coarse Language	
D	Suggestive Dialogue	TV-PG, TV-14

6 Press **[SET-UP]** to exit.

Note:

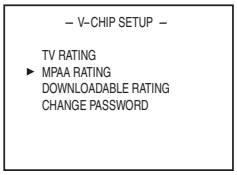
- *Blocked sub ratings will appear beside the main rating category in "TV RATING" menu.*
- *You cannot block a sub rating (D, L, S or V) if the main rating is set to "VIEW".*
- *Changing the category to "BLOCK" or "VIEW" automatically changes all its sub ratings to the same ("BLOCK" or "VIEW").*

B. MPAA Rating

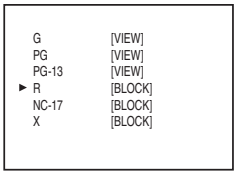
MPAA Rating is the rating system created by MPAA (Motion Picture Association of America).

4 Use **[Cursor ▲ / ▼]** to select "MPAA RATING", then press **[ENTER]**.

e.g.) digital TV mode



5 Use **[Cursor ▲ / ▼]**, then press **[ENTER]** repeatedly to change the setting.



Rating	Category
G	General audience
PG	Parental guidance suggested
PG-13	Unsuitable for children under 13
R	Restricted; under 17 requires accompanying parent or adult guardian
NC-17	No one under 17 admitted
X	Mature audience only

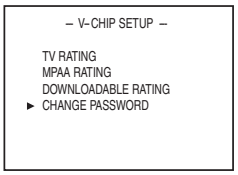
6 Press **[SET-UP]** to exit.

C. Change Password

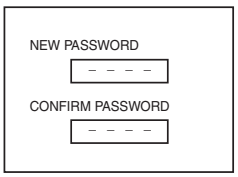
Although the default code "0000" is supplied with the unit, you can set your own password.

4 Use **[Cursor ▲ / ▼]** to select "CHANGE PASSWORD", then press **[ENTER]**.

e.g.) digital TV mode



5 Press **[the Number buttons]** on the remote control to enter the new 4-digit password.
- Enter password again in "CONFIRM PASSWORD" space.

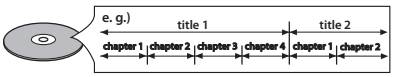


6 Press **[SET-UP]** to exit.

Note:
- *Make sure new password and confirm password must be exactly the same. If they are different, the space is cleared for reentering.*
- *Your password will be erased and return to the default (0000) when a power failure occurs. If you forget the password, unplug the power cord for 30 seconds to restore the password to 0000.*

DVD Functions

☑ Playable Media

Type of media	Mark (logo)	Region code	Recorded signals	Media size	Disc types
DVD-video *1, 2, 4, 6, 10, 11	DVD VIDEO DVD VIDEO	or	digital video (MPEG2)	5 inches (12 cm) or 3 inches (8 cm)	
DVD-RW DVD-R * 1, 3, 4, 5, 6, 7, 8, 9, 10	DVD RW DVD RW DVD R DVD R	—			
DVD+RW DVD+R * 1, 4, 5, 6, 9, 10	RW DVD+ReWritable RW DVD+R	—			
audio CD * 4, 6, 10	COMPACT disc DIGITAL AUDIO	—	digital audio		
CD-RW CD-R * 4, 5, 6, 9,10	COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc ReWritable COMPACT disc DIGITAL AUDIO Recordable COMPACT disc Recordable	—			

DVD is a trademark of DVD Format/Logo Licensing Corporation.

If you cannot play back a disc which bears one of the marks above, check the following notes.

*1: This unit conforms to the NTSC color system. Discs recorded in other color system such as PAL cannot be played back.

*2: Certain DVD-video does not operate as described in this manual due to the intentions of the disc's producers.

*3: Discs recorded in VR (video recording) format cannot be played back.

*4: Scratched or stained discs may not be played back.

*5: Some discs cannot be played back because of incompatible recording conditions, characteristics of the recorder or special properties of discs.

*6: You can play back discs which bear the marks above. If you use non-standardized discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.

*7: You may play back the unfinalized DVD-RW/-R recorded in the video format on our brand's DVD recorder. However, depending on the recording status of a disc, the disc may not be played back at all or normally (the picture or sound may not be smooth, etc.). In this case, you need to finalize the disc with the DVD recorder. Refer to the manual accompanying the DVD recorder.

*8: Only the discs recorded in the video format and finalized can be played back. Unfinalized discs cannot be played back. Depending on the recording status of a disc, the disc may not be played back at all or the picture or sound may not be smooth, etc.

*9: If the recorded portion of the disc is too small (less than 2 3/16 inches (55 mm) across), it may not play back properly.

*10: Do not glue paper or put stickers on to the disc. These may damage the disc, and the unit may not read it correctly.

*11: The number inside the symbol refers to a region of the world and a disc encoded in a specific region format can only be played back on unit with the same region code.

☑ Unplayable Media

- **NEVER play back the following discs. Otherwise, malfunction may result!**
  DVD-RAM, DVD-audio, CD-i, photo CD, video CD, DVD with region codes other than 1 or ALL, DTS-CD, DVD-ROM for personal computers, CD-ROM for personal computers, CD-RW/-R with MP3 files
- **On the following disc, the sound MAY NOT be heard.**
  super audio CD

Note:
• Only the sound recorded on the normal CD layer can be delivered. The sound recorded on the high density super audio CD layer cannot be delivered.

- **Any other discs without compatibility indications**

These operations are accessible by remote control. Some may also be accessible by controls on the main unit.

☑ Playback

Before you begin:

Turn on the amplifier and any other device which is connected to this unit. Make sure the external audio receiver (not supplied) are set to the correct input mode.

1 Press **[POWER ⏻]** to turn on the unit.

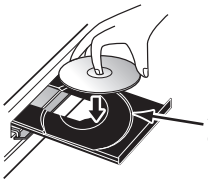
POWER

2 Press **[OPEN/CLOSE ⏏]**.

OPEN/CLOSE

- The unit switches to the DVD mode when the unit was in TV mode.

3 Insert a disc with its label side facing up.



Align the disc to the disc tray guide.

- In case the DVD was recorded on both sides, make sure the side you want to play back is facing up.

4 Press **[PLAY ▶]**. The tray will close and playback will start.

- If playback does not start automatically, press **[PLAY ▶]** again.

5 Press **[STOP ■]** to stop playback temporarily.

- If playback remains stopped for 5 minutes, the screen saver program will activate automatically, and in 15 minutes with no activity at the unit, the unit will turn off when "AUTO POWER OFF" is set to "ON" (factory default).

6 Press **[OPEN/CLOSE ⏏]** to eject the disc.

OPEN/CLOSE

Note:

- *"⃠" may appear at the top-right on the TV screen when the operation is prohibited by the disc or this unit.*
- *Some DVD may start playback from title 2 or 3 due to specific programs.*
- *During the playback of a 2-layered disc, pictures may stop for a moment. This happens while the 1st layer is being switched to the 2nd layer. This is not a malfunction.*

☑ Disc Menu

DVD

Some discs contain disc menus which describe the contents of the disc or allow you to customize disc playback, or title menu which lists the titles available on the DVD.

Press **[DISC MENU]** to call up the disc menu, or press **[TITLE]** to call up the title menu.

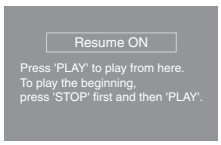
Use **[Cursor ▲ / ▼ / ◀ / ▶]** to select an item, then press **[ENTER]** (or **[PLAY ▶]**).

Note:

- *Menu operations may vary depending on the disc. Refer to the manual accompanying the disc for more details.*

☑ Resume Playback

Press **[STOP ■]** during playback. Resume message will appear on the TV screen.
Press **[PLAY ▶]**. Playback will resume from the point at which playback was stopped.



Note:

- *To cancel resume, press **[STOP ■]** one more time in the stop mode. On some discs, **[STOP ■]** will not work while the resume message appears. Please wait until the message disappears.*
- *The resume information will be kept even when unit is turned off. However, opening the disc tray will cancel the resume feature. Playback will start at the beginning the next time you insert the disc.*

☑ Pause

Press **[PAUSE ❚❚]** during playback.

- Playback will be paused and sound will be muted.

To continue playback, press **[PLAY ▶]**.

☑ Step-by-step Playback

DVD

Each time you **[PAUSE ❚❚]** in the pause mode, the disc goes forward one frame at a time.

To continue playback, press **[PLAY ▶]**.

Note:
- *Set "STILL MODE" to "FIELD" in "DISPLAY" menu if pictures in the pause mode are blurred. (Refer to page 33.)*

☑ Fast Forward / Fast Reverse

Press **[REV ◀◀]** or **[FWD ▶▶]** repeatedly during playback to select the required forward or reverse speed.

To continue playback, press **[PLAY ▶]**.

Note:
- *Set "STILL MODE" to "FIELD" in "DISPLAY" menu if pictures in the fast playback mode are blurred. (Refer to page 33.)*
- *Fast forward / fast reverse speed varies with disc. Approximate speed is 1(2x), 2(8x), 3(20x), 4(50x) and 5(100x) on DVD and 1(2x), 2(8x) and 3(30x) on audio CD.*
- *For DVD, sound will be muted during the search.*
- *For audio CD, sound will be intermittent during the search.*

☑ Slow Forward / Slow Reverse

DVD

Press **[REV ◀◀]** or **[FWD ▶▶]** repeatedly during the paused mode to select the required forward or reverse speed.

To continue playback, press **[PLAY ▶]**.

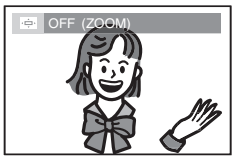
Note:
- *Slow forward / slow reverse speed varies with disc. Approximate speed is 1(1/16x), 2(1/8x) and 3(1/2x).*
- *Set "STILL MODE" to "FIELD" in "DISPLAY" menu if pictures in the slow playback mode are blurred. (Refer to page 33.)*
- *The sound will be muted during slow forward/slow reverse playback.*

☑ Zoom

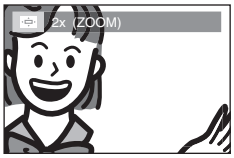
DVD

The zoom function allows you to enlarge the video image and to pan through the enlarged image.

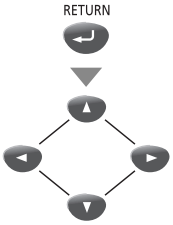
1 During playback, press **[MODE]** repeatedly until " " appears.

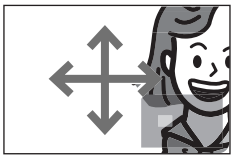


2 Press **[ENTER]** repeatedly to change the zoom factor; "OFF (ZOOM)", "1.3x (ZOOM)", "2x (ZOOM)" or "4x (ZOOM)".



3 Once a desired zoom factor is set, press **[RETURN ↵]** to display the position guide, then use **[Cursor ▲/ ▼/ ◀ / ▶]** to slide the zoomed picture across the TV screen.





4 To exit zoom, repeat steps 1 to 2 above and press **[ENTER]** until "OFF (ZOOM)" appears.

Note:
- *The gray box with an inner blue box that shows during zoomed playback is the position guide indicates the position of the zoomed image within the overall image. Position guide stays on the TV screen until you press **[ENTER]**. Press **[ENTER]** one more time to recall the position guide when disappears.*
- *Zoom function does not work while the disc menu is displayed.*
- *4x zoom is not available on some discs.*
- *Zoom function is also available during pause mode.*

☑ Search Functions

Chapter / Title Search

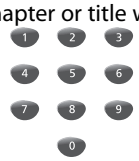
DVD

Using [MODE]

1 During playback, press **[MODE]** repeatedly until "CH" appears.
- If you want to perform the title search, press **[Cursor ▲/▼]** repeatedly until "TT" appears.

MODE

2 Press **[the Number buttons]** to select your desired chapter or title within 60 seconds.



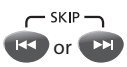
To play back a single-digit chapter or title when there are more than 10 chapters or titles, press **[ENTER]** after entering the chapter or title number.

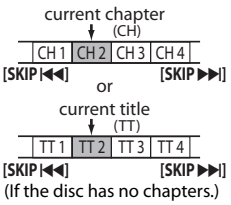
3 Playback will start automatically from the chapter or title you selected.

Note:
- *The total number of chapters/titles in your disc; with less than 10 chapters/titles, press the chapter/title number directly. With 10 or more chapters/titles, to play back a single digit chapter/title, press **[0]** first, then the chapter/title number. (e.g., for chapter 3, press **[0]** and **[3]**.) To play back a double-digit chapter/title, press the chapter/title number.*

Using [SKIP ⏮◀◀ / ▶▶⏭]

1 During playback, press **[SKIP ⏮◀◀ / ▶▶⏭]** repeatedly until a desired chapter or title will be selected.





(If the disc has no chapters.)

2 Playback will start automatically from the chapter or title you selected.

Note:
- ***[SKIP ⏮◀◀ / ▶▶⏭]*** *are not available when playback is stopped.*
- *Chapter/title search can only be performed during playback or when the unit has kept the resume information. It cannot be performed in the stop mode.*
- *Chapter/title search is not available with some DVD.*

Track Search

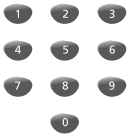
CD

Using [MODE]

1 During playback, press **[MODE]** repeatedly until "TR" appears.

MODE

2 Press **[the Number buttons]** to select your desired track within 60 seconds.



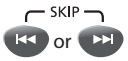
To play back a single-digit track when there are more than 10 tracks, press **[ENTER]** after entering the track number.

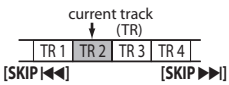
3 Playback will start automatically from the track you selected.

Note:
- *The total number of tracks in your disc; with less than 10 tracks, press the track number directly. with 10 or more tracks, to play back a single digit track, press **[0]** first, then the track number. (e.g., for track 3, press **[0]** and **[3]**.) To play back a double-digit track, press the track number.*
- *Track search is not available for programmed or random playback.*

Using [SKIP ⏮◀◀ / ▶▶⏭]

1 During playback, press **[SKIP ⏮◀◀ / ▶▶⏭]** repeatedly until your desired track will be selected.





2 Playback will start automatically from the track you selected.

Note:
- ***[SKIP ⏮◀◀ / ▶▶⏭]*** *are not available when playback is stopped.*
- *Track search can only be performed during playback or when the unit has kept the resume information. It cannot be performed in the stop mode.*

Time Search

1 During playback, press **[MODE]** repeatedly until "CH" / "TR" appears.

e.g.) DVD

MODE

2 Use **[Cursor ▲/▼]** repeatedly until "⏲" appears.

▲
or
▼

3 Press **[the Number buttons]** to select your desired time lapse within 60 seconds.

1 2 3
4 5 6
7 8 9
0

4 Playback will start automatically from the time you selected.

Note:

- *When there is no need to enter a number, "0" appears automatically. For example, "0: 0_ : _ _" appears in time search menu if the total time of the title or track is less than 10 minutes.*
- *Press **[CLEAR]** to erase the incorrect input at step 3.*
- *Time search can only be performed during playback or when the unit has kept the resume information. It cannot be performed in the stop mode.*

Direct Search

Press **[the Number buttons]** to select your desired chapter, title or track.

1 2 3
4 5 6
7 8 9
0

Note:

- *To select a single-digit chapter, title or track number, press the number directly.*
- *To select double-digit chapter, title or track number:*

*- If the disc contains more than 9 and less than 100 chapters, titles or tracks, press **[+100/+10]** first, then enter the double-digit chapter, title or track number.*
*(e.g., for track 26, press **[+100/+10]**, **[2]** and **[6]**.)*

☑ Repeat Playback

You can repeat playback chapters, titles or tracks on a disc.

1 During playback, press **[MODE]** repeatedly until "↻" appears.

MODE

2 Press **[Cursor ▲/▼]** to change the repeat mode.

DVD

- **OFF** (repeat **off**)
- **CHAPTER** (**current chapter** repeat)
- **TITLE** (**current title** repeat)

CD

- **OFF** (repeat **off**)
- **TRACK** (**current track** repeat)
- **ALL** (**entire disc** repeat)

3 Press **[RETURN ↩]** to exit.

RETURN

☑ Repeat A-B Playback

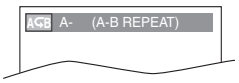
You can repeat playback between A and B on a disc.

1 During playback, press **[MODE]** repeatedly until "A-B OFF" appears.

MODE

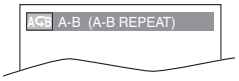
2 Press **[ENTER]** at your desired starting point A.

ENTER



3 Press **[ENTER]** at your desired ending point B.

ENTER



- Point B should be in the same title or track as point A.
- Within a few seconds, the section A-B will begin to play back repeatedly.

4 To cancel repeat A-B playback, press **[MODE]** repeatedly until "A-B A-B" appears.
Press **[ENTER]** so "A-B OFF" appears.

MODE ▶ ENTER

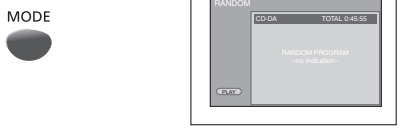
Note:
- *Repeat setting (except "ALL") will be cleared when moving to another title, chapter or track.*
- *During programmed playback, repeat setting will be effective for the tracks in the program.*
- *Repeat playback or repeat A-B playback may not available with some discs.*
- *Repeat A-B playback does not function during other repeat mode.*
- *To cancel point A, press **[CLEAR]** at step 2 in "Repeat A-B Playback".*
- *Stopping playback will cancel repeat A-B playback.*

☑ Random Playback

CD

This function shuffles the playing order of tracks instead of playback in the sequence.

1 In stop mode, press **[MODE]** repeatedly until "RANDOM" menu appears.



2 Press **[PLAY ▶]** to start random playback.

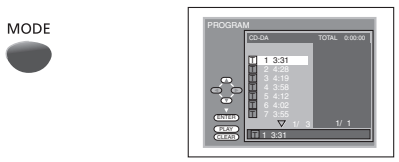
Note:
- *To repeat the current track in the random mode, follow the steps 1 and 2 in "Repeat Playback" on page 26 and select "TRACK".*
- *To repeat the entire random selections, follow the steps 1 and 2 in "Repeat Playback" on page 26 and select "ALL".*
- *Random playback will be kept until you press **[STOP ■]**.*

☑ Programmed Playback

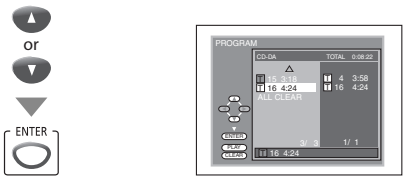
CD

You may determine the order in which tracks will be played back.

1 In stop mode, press **[MODE]** repeatedly until the "PROGRAM" menu appears.



2 Use **[Cursor ▲ / ▼]** to select a desired track, then press **[ENTER]** to store.
- Additional tracks may be on other screens. Use **[Cursor ▲/ ▼]** to go on to the next / previous pages.
- Repeat this step until you have selected all the tracks you wish to play back in the program.



- Up to 99 tracks can be ordered.
- If 8 or more tracks were in a program, use **[SKIP |◀◀ / ▶▶|]** to see all the tracks.

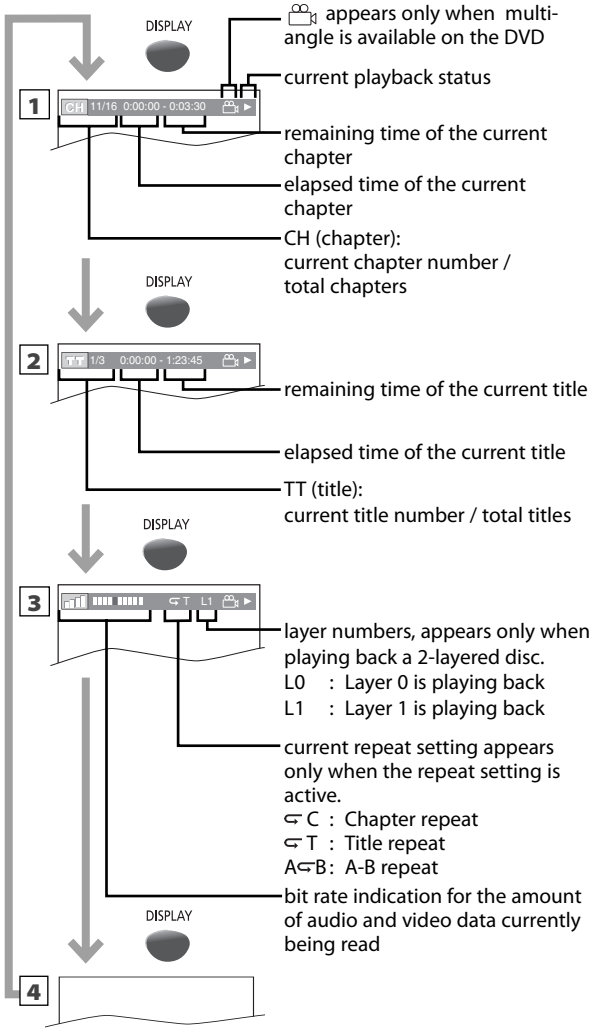
3 Press **[PLAY ▶]** to start programmed playback.

Note:
- *Press **[CLEAR]** to erase the last track in the program if you make an error.*
- *To erase all programmed tracks at once, select "ALL CLEAR" and press **[ENTER]** at step 2.*
- *While a program is being played back, **[STOP ■]** works as follows:*
  - *Pressing **[STOP ■]** once: The track will be in the resume standby mode. Next time you press **[PLAY ▶]**, the playback will resume from the point where it is stopped in the programmed playback.*
  - *Pressing **[STOP ■]** twice: Resume mode will be canceled. Next time you press **[PLAY ▶]**, playback will restart from the first track in the original order. However, your programmed playback can be restarted when you follow the above steps. (Your programs are still stored until either the disc is ejected or the unit is turned off.)*
  - *On some discs, **[STOP ■]** will not work while the resume message appears. Please wait until the message disappears.*
- *To repeat the current track in the program, follow the steps 1 and 2 in "Repeat Playback" on page 26 and select "TRACK".*
- *To repeat the entire program, follow the steps 1 and 2 in "Repeat Playback" on page 26 and select "ALL".*
- *Turning off the unit or opening the disc tray will erase the program.*
- *You cannot use **[the Number buttons]** to select another track during programmed playback. Use **[REV ◀◀]** or **[FWD ▶▶]** to select other tracks in the program.*
- *You cannot combine random playback with programmed playback.*
- *You cannot alter a programmed order during playback.*
- *You can start programmed playback only while in "PROGRAM" menu.*

☑ On-screen Display

You can check the information about the current disc by pressing [DISPLAY] on the remote control.

DVD



appears only when multi-angle is available on the DVD

current playback status

remaining time of the current chapter

elapsed time of the current chapter

CH (chapter):
current chapter number / total chapters

remaining time of the current title

elapsed time of the current title

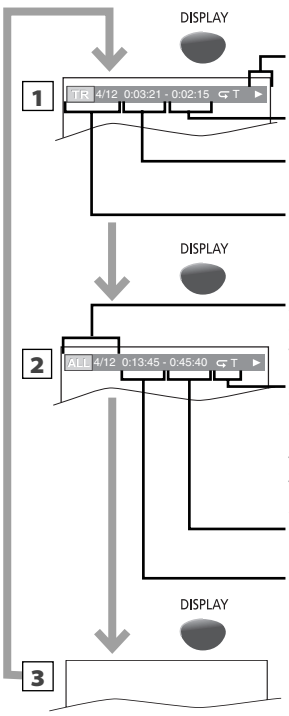
TT (title):
current title number / total titles

layer numbers, appears only when playing back a 2-layered disc.
L0 : Layer 0 is playing back
L1 : Layer 1 is playing back

current repeat setting appears only when the repeat setting is active.
↻ C : Chapter repeat
↻ T : Title repeat
A↻B: A-B repeat

bit rate indication for the amount of audio and video data currently being read

CD



current playback status

remaining time of the current track

elapsed time of the current track

TR (track):
current track number / total tracks

ALL:
current track number / total tracks

current repeat setting appears only when the repeat setting is active.
↻ T : Track repeat
↻ A : All tracks repeat
A↻B: A-B repeat

remaining time of the entire disc

elapsed time of the entire disc

Note:

- *When you are playing back a disc in program or random mode, " TR PROGRAM" (or " TR RANDOM") will be displayed instead of 2.*

☑ Special Settings

Subtitle Language

DVD

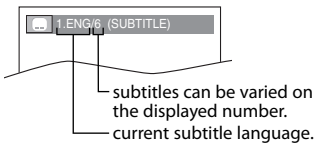
This unit allows you to select a subtitle language (if available) during DVD playback.

1 During playback, press **[MODE]** repeatedly until "[ ]" appears.

MODE

2 Use **[Cursor ▲/▼]** repeatedly until your desired language appears.

or



• Each time you press **[Cursor ▲/▼]**, the subtitle language changes as example below.

OFF (no subtitles)
ENG (English subtitles)
FRE (French subtitles)

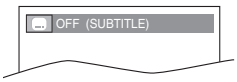
To cancel the subtitle

1 During playback, press **[MODE]** repeatedly until "[ ]" appears.

MODE

2 Use **[Cursor ▲/▼]** repeatedly until "[ ] OFF (SUBTITLE)" appears.

or



Note:

- *If your language is not shown after pressing **[Cursor ▲/▼]** several times, the disc may not have that language. However, some discs only allow you to change subtitle languages setting in the disc menu. (Operation varies depending on the disc, so refer to the manual along with the disc.)*
- *When "NOT AVAILABLE" appears on the TV screen, it means no subtitle is recorded on the scene.*
- *If you choose a language that has 3-letter abbreviation, the abbreviation will be displayed every time you change the subtitle language setting. If you choose any other languages, "---" will be displayed instead. (Refer to page 37.)*
- *Opening the disc tray will cancel your subtitle setting.*

Audio Language

DVD

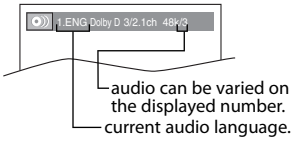
This unit allows you to select an audio language (if multiple languages are available) during DVD playback.

1 During playback, press **[MODE]** repeatedly until "[ ]" appears.

MODE

2 Use **[Cursor ▲/▼]** repeatedly until the desired language appears.

or



• Each time you press **[Cursor ▲/▼]**, the audio language changes as example below.

ENG (English audio)
SPA (Spanish audio)
FRE (French audio)

Note:

- *Some discs will only allow you to change the audio setting from the disc menu. Refer to the manual accompanying the discs for details.*
- *If your language is not shown after using **[Cursor ▲/▼]** several times, the disc may not have that language. However, some discs allow you to change multiple audio languages setting in the disc menu. (Operation varies depending on the disc, so refer to the manual along with the disc.)*
- *When "NOT AVAILABLE" appears on the TV screen, it means audio language is not available.*

Camera Angles

DVD

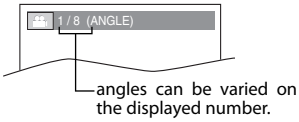
Some DVD may contain scenes which have been shot simultaneously from various angles. You can change the camera angle if "[ ]" appears on the TV screen. If "ANGLE ICON" is set to "OFF" in "OTHERS" menu, "[ ]" will not appear. (Refer to page 36.)

1 During playback, press **[MODE]** repeatedly until "[ ]" appears.

MODE

2 Use **[Cursor ▲/▼]** repeatedly until your desired camera angle appears.

or



Black Level Setting

DVD

Adjust the black level to make the dark areas of the TV picture brighter.

1 During playback, press **[MODE]** repeatedly until "▣" appears.

MODE

2 Use **[Cursor ▲/▼]** to adjust the black level.

or

ON : Makes the dark areas brighter.
OFF : Shows the original picture as recorded.

3 Press **[RETURN ↩]** to exit.

RETURN

Note:
• The setting will be kept even if the unit is turned off.

Stereo Sound Mode

CD

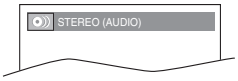
This unit allows you to select a sound mode during audio CD playback.

1 During playback, press **[MODE]** repeatedly until "◉" appears.

MODE

2 Use **[Cursor ▲/▼]** repeatedly until the desired sound mode appears.

or



• Each time you press **[Cursor ▲/▼]**, the sound mode changes as example below.

STEREO (stereo sound with left and right channels)
L-ch (left channel sound only)
R-ch (right channel sound only)

Note:
• Virtual surround cannot be changed when the sound mode is set to either "L-ch" or "R-ch".

Virtual Surround

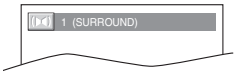
You can enjoy virtual surround on your existing 2 channel stereo system.

1 During playback, press **[MODE]** repeatedly until "◐" appears.

MODE

2 Use **[Cursor ▲/▼]** to select the sound level.

or



1 : Natural effect
2 : Emphasized effect
OFF : No effects (original sound)

3 Press **[RETURN ↩]** to exit.

RETURN

Note:
• The setting will be kept even if the unit is turned off.
• For audio CD, virtual surround will not be effective if the sound mode is set to something other than "STEREO". See "Stereo Sound Mode".
• Turn down the level or select "OFF" if the sound is distorted.

Marker Setup

This feature allows you to assign a specific point on a disc to be called back later.

To set a marker

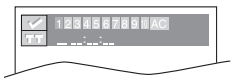
1 During playback, press **[MODE]** repeatedly until "CH" / "TR" appears.

e.g.) DVD

MODE

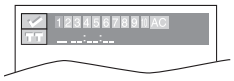
2 Use **[Cursor ▲/▼]** repeatedly until marker search menu appears.

▲ or ▼



3 Use **[Cursor ◄ / ►]** to select an available marker within 60 seconds.

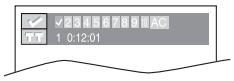
◄ or ►



4 When the playback reaches the point at which you want to set a marker, press **[ENTER]**.

• Marker is now set.

ENTER



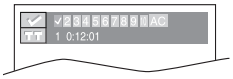
5 Press **[RETURN ↩]** to exit.

RETURN

To return to the marker later

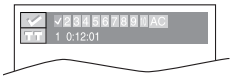
1 To select a desired marker, repeat steps 1 to 3 in "To set a marker".

e.g.) DVD



2 Press **[ENTER]** at the desired marker to start playback from the specific point which you set.

ENTER



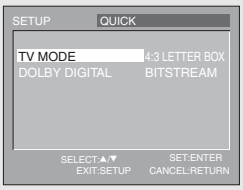
Note:

- *Marker search menu will disappear in about 60 seconds when there is no input.*
- *You can mark up to 10 points.*
- *To clear a marker, select the marker to be cleared, and then press **[CLEAR]**.*
- *Ejecting the disc or turning off the power will erase all markers.*
- *Selecting "AC" at step 3 in the section "To set a marker" will also erase all markers.*

Settings are only effective when the unit is in DVD mode and any discs should not be played back.

QUICK MENU AT A GLANCE

If you make setting for "TV MODE" or "DOLBY DIGITAL", you can also enter from the "QUICK" menu.
In stop mode, press **[SET-UP]** to display the "SETUP" menu first, then use **[Cursor ▲/▼]** to select "QUICK" and press **[ENTER]**.

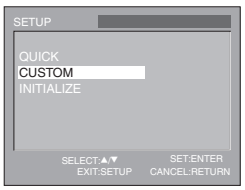


☑ DVD Language Setting

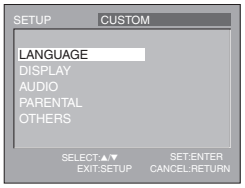
You can change the desired language when playing back the disc.

1 In stop mode, press **[SET-UP]** to display the "SETUP" menu.

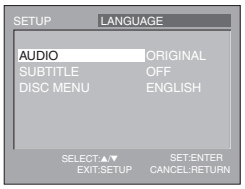
2 Use **[Cursor ▲/▼]** to select "CUSTOM", then press **[ENTER]**.



3 Use **[Cursor ▲/▼]** to select "LANGUAGE", then press **[ENTER]**.

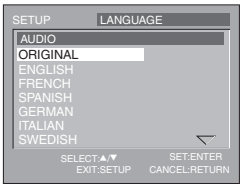


4 Use **[Cursor ▲/▼]** to select the desired item, then press **[ENTER]**.

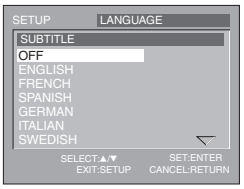


5 Use **[Cursor ▲/▼]** to select the desired item, then press **[ENTER]**.

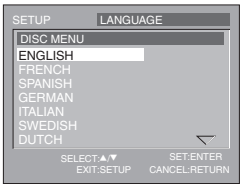
[AUDIO] *1, *2 (Default: ORIGINAL)
Select the desired audio language.



[SUBTITLE] *1, *2 (Default: OFF)
Select the desired subtitle language.



[DISC MENU] *1 (Default: ENGLISH)
Select the desired language in DVD menu.



Note:

- *To change the on-screen language, press **[SELECT]** to switch the unit to TV mode first. Press **[SET-UP]** to display "TV SETUP" menu, then set the desired language. (Refer to "Language Selection" on page 12.)*

***1**

- *Language options are not available with some discs.*
- *If "OTHER" is selected in "AUDIO", "SUBTITLE" or "DISC MENU" menu, press 4-digit number to enter the code for the desired language. (Refer to "Language Code List" on page 37.)*
- *Only the languages supported by the disc can be selected.*

***2**

- *Use **[MODE]** to select audio and subtitles available on the DVD.*
- *If the DVD's default settings for audio and subtitle are the same language, the subtitles may not show unless you turn them on.*

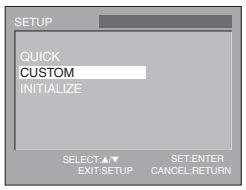
6 Press **[SET-UP]** to exit.

☑ Display Setting

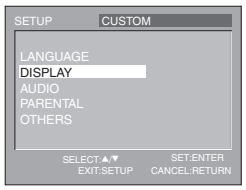
You can change the TV aspect ratio and still mode clarity in "DISPLAY" menu.

1 In stop mode, press **[SET-UP]** to display "SETUP" menu.

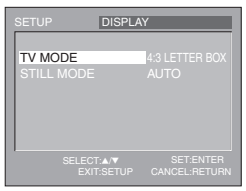
2 Use **[Cursor ▲/▼]** to select "CUSTOM", then press **[ENTER]**.



3 Use **[Cursor ▲/▼]** to select "DISPLAY", then press **[ENTER]**.



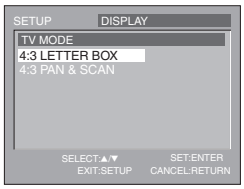
4 Use **[Cursor ▲/▼]** to select the desired item, then press **[ENTER]**.



5 Use **[Cursor ▲/▼]** to select the desired item, then press **[ENTER]**.

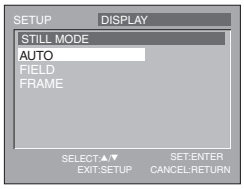
[TV MODE] (Default: 4:3 LETTER BOX)

Select the desired TV aspect ratio.



[STILL MODE] (Default: AUTO)

Select the desired still mode.



Note:

TV MODE:

- *Select "4:3 LETTER BOX", so that black bars may appear on the top and bottom of the TV screen.*
- *Select "4:3 PAN & SCAN" for a full height picture with both sides adjusted.*

STILL MODE:

- *Select "AUTO" usually.*
- *If you select "FIELD", the picture in the still mode will be stabilized.*
- *If you select "FRAME", the picture in the still mode will be highly defined.*

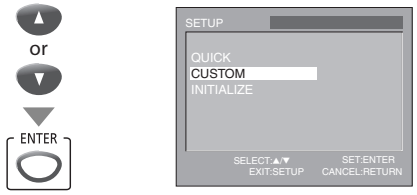
6 Press **[SET-UP]** to exit.

☑ DVD Audio Setting

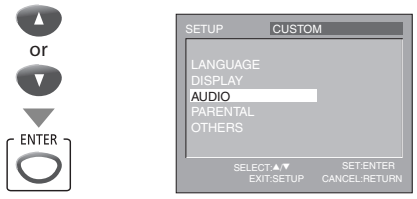
Choose the appropriate audio settings for your device. It only affects during the playback of DVD.

1 In stop mode, press **[SET-UP]** to display "SETUP" menu.

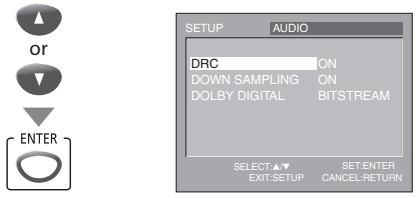
2 Use **[Cursor ▲/▼]** to select "CUSTOM", then press **[ENTER]**.



3 Use **[Cursor ▲/▼]** to select "AUDIO", then press **[ENTER]**.

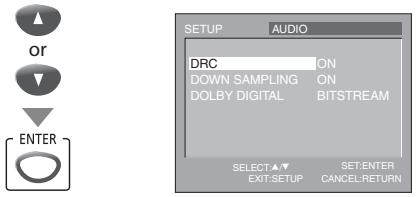


4 Use **[Cursor ▲/▼]** to select the desired item, then press **[ENTER]**.



5 Use **[Cursor ▲/▼]** to select the desired item, then press **[ENTER]**.

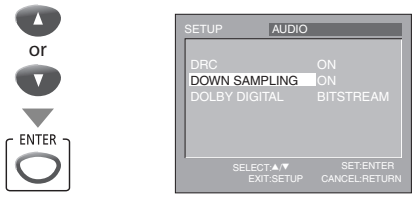
[DRC] (dynamic range control) (Default: ON)
Select "DRC".
This function is available only on the discs which are recorded in the Dolby Digital format.



ON : Compress the range between soft and loud sounds.
OFF : No effects (original sound).

[DOWN SAMPLING] (Default: ON)

Select "DOWN SAMPLING".
This function is available only on digital outputting of a disc recorded in 96kHz.

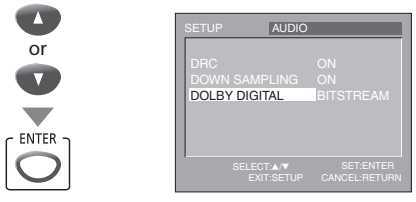


ON : When outputting in 48kHz.
OFF : When outputting the original sound.

Note:
• When playing back a 96 kHz disc with the copyright protection or when virtual surround is set to 1 or 2, the sound will be down sampled at 48 kHz even if "DOWN SAMPLING" is "OFF".

[DOLBY DIGITAL] (Default: BITSTREAM)

Select "BITSTREAM" when this unit is connected to a Dolby Digital decoder. Available on DVD only.



BITSTREAM : Outputs Dolby Digital signals.
PCM : Converts the Dolby Digital into PCM. (2 channel)

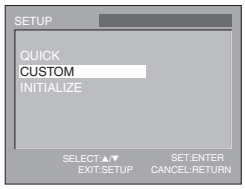
6 Press **[SET-UP]** to exit.

☑ Parental Setting

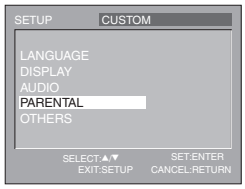
Parental setting prevents your children from viewing inappropriate materials. (Password protected.) Playback will stop if the ratings exceed the levels you set.

1 In stop mode, press **[SET-UP]** to display "SETUP" menu.

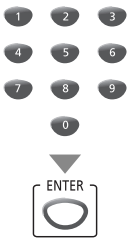
2 Use **[Cursor ▲/▼]** to select "CUSTOM", then press **[ENTER]**.

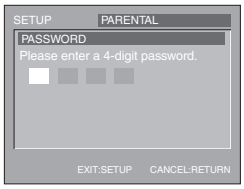


3 Use **[Cursor ▲/▼]** to select "PARENTAL", then press **[ENTER]**.



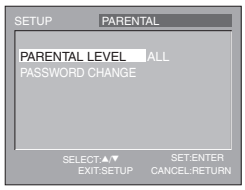
4 Use **[the Number buttons]** to enter the 4-digit number for your password, then press **[ENTER]**.



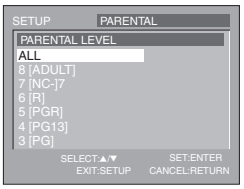


- If you have set password already, use **[the Number buttons]** to enter the current 4-digit password.
- You cannot use the default password (4737) to play back a DVD.

5 Use **[Cursor ▲/▼]** to select "PARENTAL LEVEL", then press **[ENTER]**.



6 Use **[Cursor ▲/▼]** to select the desired item, then press **[ENTER]**.



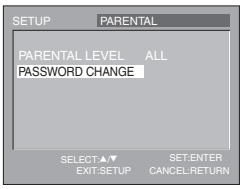
PARENTAL LEVEL

ALL : All parental locks are canceled.
8 [ADULT] : All ratings (adult/general/children) can be played back.
7 [NC-17]-2 [G] : Only DVD intended for general use and children can be played back.
1 [KID SAFE] : Only DVD intended for children can be played back.

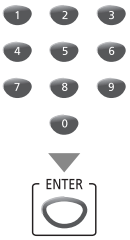
7 Press **[SET-UP]** to exit.

To change the password

5 Follow steps 1 to 4. Use **[Cursor ▲/▼]** to select "PASSWORD CHANGE", then press **[ENTER]**.



6 Use **[the Number buttons]** to enter the new 4-digit password, then press **[ENTER]**.



Note:

- *DVD-video may not respond to parental lock settings. Make sure this function works with your DVD-video.*
- *Record the password in case you forget it.*
- *If you forget the password, press **[4]**, **[7]**, **[3]**, **[7]**, then enter your new password. Password will be cleared and parental levels will be set to "ALL".*
- *A power failure will not erase your password.*

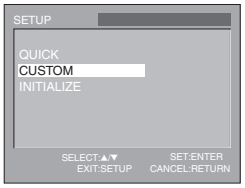
7 Press **[SET-UP]** to exit.

☑ Others

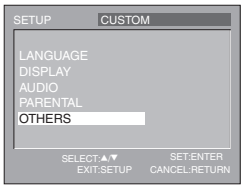
You can change the other functions.

1 In stop mode, press **[SET-UP]** to display "SETUP" menu.

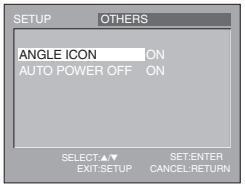
2 Use **[Cursor ▲/▼]** to select "CUSTOM", then press **[ENTER]**.



3 Use **[Cursor ▲/▼]** to select "OTHERS", then press **[ENTER]**.

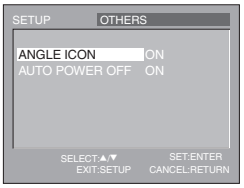


4 Use **[Cursor ▲/▼]** to select the desired item, then press **[ENTER]**.

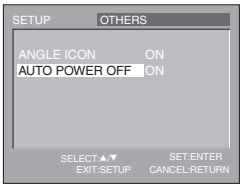


5 Use **[Cursor ▲/▼]** to select the desired item, then press **[ENTER]**.

[ANGLE ICON] (Default: ON)
Set to "ON" to show the angle icon when multiple camera angles are available during DVD playback.



[AUTO POWER OFF] (Default: ON)
Set to "ON" to turn this unit off automatically after 20 minutes of no use.



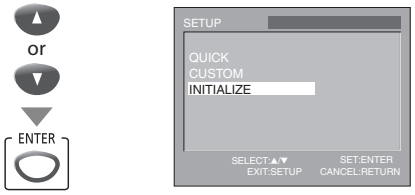
6 Press **[SET-UP]** to exit.

☑ Reset to the Default Setting

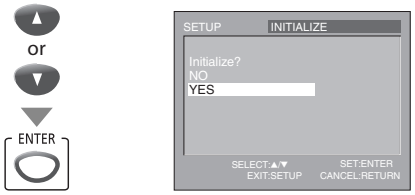
You can reset all the settings except for the parental setting and on-screen menu language.

1 In stop mode, press **[SET-UP]** to display "SETUP" menu.

2 Use **[Cursor ▲/▼]** to select "INITIALIZE", then press **[ENTER]**.



3 Use **[Cursor ▲/▼]** to select "YES", then press **[ENTER]**.



4 Press **[SET-UP]** to exit.

Note:

*• When you want to cancel the initialization, select "NO" at step 3, then press **[SET-UP]**.*

☑ Language Code List

Language	Code
A-B	
Abkhazian	4748
Afar	4747
Afrikaans	4752
Albanian	6563
Amharic	4759
Arabic	4764
Armenian	5471
Assamese	4765
Aymara	4771
Azerbaijani	4772
Bashkir	4847
Basque	5167
Bengali;Bangla	4860
Bhutani	5072
Bihari	4854
Bislama	4855
Breton	4864
Bulgarian	4853
Burmese	5971
Byelorussian	4851
C-E	
Cambodian	5759
Catalan	4947
Chinese [CHI]	7254
Corsican	4961
Croatian	5464
Czech [CZE]	4965
Danish [DAN]	5047
Dutch [DUT]	6058
English [ENG]	5160
Esperanto	5161
Estonian	5166
F-H	
Faroese	5261
Fiji	5256
Finnish [FIN]	5255
French [FRE]	5264
Frisian	5271
Galician	5358
Georgian	5747
German [GER]	5051
Greek [GRE]	5158
Greenlandic	5758
Guarani	5360
Gujarati	5367
Hausa	5447
Hebrew	5569
Hindi	5455
Hungarian [HUN]	5467
I-K	
Icelandic [ICE]	5565
Indonesian	5560
Interlingua	5547
Interlingue	5551
Inupiak	5557
Irish [IRI]	5347
Italian [ITA]	5566
Japanese [JPN]	5647
Javanese	5669
Kannada	5760
Kashmiri	5765
Kazakh	5757
Kinyarwanda	6469
Kirghiz	5771
Kirundi	6460
Korean [KOR]	5761
Kurdish	5767
L-N	
Laothian	5861
Latin	5847
Latvian;Lettish	5868
Lingala	5860
Lithuanian	5866
Macedonian	5957
Malagasy	5953
Malay	5965
Malayalam	5958
Maltese	5966
Maori	5955

Language	Code
Marathi	5964
Moldavian	5961
Mongolian	5960
Nauru	6047
Nepali	6051
Norwegian [NOR]	6061
O-R	
Occitan	6149
Oriya	6164
Oromo(Afan)	6159
Panjabi	6247
Pashto;Pushto	6265
Persian	5247
Polish [POL]	6258
Portuguese [POR]	6266
Quechua	6367
Rhaeto-Romance	6459
Romanian [RUM]	6461
Russian [RUS]	6467
S	
Samoan	6559
Sangho	6553
Sanskrit	6547
Scots Gaelic	5350
Serbian	6564
Serbo-Croatian	6554
Sesotho	6566
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Volapuk	6861
Welsh	4971
Wolof	6961
Xhosa	7054
Yiddish	5655
Yoruba	7161
Zulu	7267

Note:

• If you choose a language that has a 3-letter abbreviation, they will be displayed every time you change the audio or subtitle language setting above. If you choose any other language, '---' will be displayed instead. (3-letter abbreviation is written in bracket.)

☑ Troubleshooting Guide

If the unit does not perform properly when operated as instructed in this owner's manual, check the following chart once before calling for service.

	Symptom	Remedy
TV	No power	• Be sure the power cord is plugged in. • If a power failure occurs, unplug the power cord for 30 minutes to allow the unit to reset itself.
	No picture or sound	• Check if the power is on. • Check the outlet connection. • Check the antenna or cable connection to the main unit. • When the outside antenna is used, check the wire condition and connection. • View other TV channels. The problem might be limited to the broadcasting station. • Turn off the power and wait for about 1 minute, then turn it on again.
	No color	• Check the antenna or cable connection to the main unit. • When the outside antenna is used, check the wire condition and connection. • View other TV channels. The problem might be limited to the broadcasting station. • Adjust "COLOR" in "PICTURE" menu.
	Sound OK, picture poor	• Check the antenna or cable connection to the main unit. • When the outside antenna is used, check the wire condition and connection. • Electrical interference from nearby appliances may affect picture quality. • Adjust "CONTRAST" and "BRIGHT" in "PICTURE" menu. • View other TV channels. The problem might be limited to the broadcasting station.
	Picture distorted	• When the outside antenna is used, check the wire condition and connection. • View other TV channels. The problem might be limited to the broadcasting station.
	Weak picture	• Check the antenna or cable connection to the main unit. • When the outside antenna is used, check the wire condition and connection. • Adjust "CONTRAST" and "BRIGHT" in "PICTURE" menu. • View other TV channels. The problem might be limited to the broadcasting station.
	Lines or streaks in picture	• When the outside antenna is used, check the wire condition and connection. • Electrical interference from nearby appliances may affect picture quality. • View other TV channels. The problem might be limited to the broadcasting station.
	Picture blurred	• When the outside antenna is used, check the wire condition and connection. • View other TV channels. The problem might be limited to the broadcasting station.
	Ghosts in picture	• Check the antenna or cable connection to the main unit. • When the outside antenna is used, check the wire condition and connection. • Electrical interference from nearby appliances may affect picture quality. • View other TV channels. The problem might be limited to the broadcasting station.
	Bars on TV screen	• When the outside antenna is used, check the wire condition and connection. • Electrical interference from nearby appliances may affect picture quality.
	Picture rolls vertically	• When the outside antenna is used, check the wire condition and connection. • Electrical interference from nearby appliances may affect picture quality. • View other TV channels. The problem might be limited to the broadcasting station.
	Different color marks on TV screen	• Move the unit away from nearby electric appliances. Turn off the power and wait 30 minutes before turning it back on. • View other TV channels. The problem might be limited to the broadcasting station.
	Poor reception on some channels	• Check the antenna or cable connection to the main unit. • When the outside antenna is used, check the wire condition and connection. • Electrical interference from nearby appliances may affect picture quality. • View other TV channels. The problem might be limited to the broadcasting station.
	Picture OK, sound poor	• View other TV channels. The problem might be limited to the broadcasting station.
	No reception of digital signals	• Make sure auto channel scan has been completed. (Refer to "Auto Channel Scan" on page 12.) Auto channel scan must be completed when you set up the unit for the first time or move it to a location where previously unavailable channels are broadcast. • The selected channel may not be broadcasting. • When auto channel scan is interrupted and not completed, some channels will not be received. Make sure to complete. (Refer to "Auto Channel Scan" on page 12.)

	Symptom	Remedy
TV	The entered channel number changes automatically	• Many digital channels have alternate channel numbers. The unit changes the numbers automatically to the ones signifying the broadcasting stations. These are the numbers used for analog broadcasts.
TV	Remote control does not work	• Check the antenna or cable connection to the main unit. • Check the batteries of the remote control. • Check if there is an obstacle between the infrared sensor window and the remote control. • Test the signal output. If OK, then possible remote sensor trouble. (Refer to "IR Signal Check" on page 40.) • Aim the remote control directly at the infrared sensor window on the front of the unit. • Reduce the distance to the unit. • Re-insert the batteries with their polarities (+/– signs) as indicated.
	Problems with Closed Caption Feature	
TV	Misspelled captions are displayed.	• Closed captioning production companies may broadcast programs without correcting the misspelling in a live broadcast.
TV	Captions are not entirely displayed, or captions are delayed behind the dialogue.	• Captions that are delayed a few seconds behind the actual dialogue are common for live broadcasts. Most captioning production companies can display a dialogue to a maximum of 220 words per minute. If a dialogue exceeds that rate, selective editing is used to insure that the captions remain up-to-date with the current TV screen dialogue.
TV	Captions are displayed as a white box. No caption is displayed in the Closed Caption-supported program.	• Interference from buildings or weather conditions may cause captioning to be incomplete. • Broadcasting station may shorten the program to insert advertisement. The closed caption decoder cannot read the information of the shortened program.
TV	No caption is displayed when playing back the cassette tape containing captions.	• The cassette tape may be illegally copied, or the caption signal might not have been read during copying.
TV	Black box is displayed in the TV screen.	• The text mode is selected for caption. Select "CAPTION1", "CAPTION2" or "OFF".
DVD	Completely distorted picture or black/white picture with DVD	• Make sure the disc is compatible with the unit.
DVD	Picture freezes momentarily during playback.	• Check the disc for fingerprints/scratches and clean with a soft cloth wiping from center to edge.
DVD	Disc cannot be played back.	• Clean the disc. • Ensure the disc is correctly inserted. • Check if the disc is defective by trying another disc. • Cancel the parental lock or change the control level. • Insert a correct disc that can be played back on this unit. • Handle a disc with special care so that it does not have fingerprints, scratches, or dusts on its surface.
DVD	Buttons do not work or the unit stops responding.	• To completely reset the unit, unplug the power cord from the power outlet for 5-10 seconds.
DVD	The unit does not respond to some operating commands during playback.	• Operations may not be permitted by the disc. Refer to the instructions of the disc.
DVD	Angle does not switch.	• The angle cannot be switched for DVD which do not contain multiple angles. In some cases multiple angles are only recorded for specific scenes.
DVD	Playback does not start when the title is selected.	• Check the "PARENTAL" setting.
DVD	The password for rating level has been forgotten.	• Enter the default password "4737", then your forgotten password will be cleared.

Note:

- *Some functions are not available in specific modes, but this is not a malfunction. Read the description in this owner's manual for more details on correct operations.*
- *Playback from a desired track and random playback are not available during programmed playback.*
- *Some functions are prohibited on some discs.*

☑ Glossary

ATSC

Acronym that stands for Advanced Television Systems Committee and the name of the digital broadcasting standards.

Aspect Ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the screen is almost square); widescreen models are 16:9 (the screen is almost twice as wide as its height).

Dolby Digital

The system developed by Dolby Laboratories to compress digital sound. It offers stereo sound (2ch) or multi-channel audio.

HDTV (high definition TV)

Ultimate digital format that produces high resolution and high picture quality.

NTSC

Acronym that stands for National Television Systems Committee and the name of the current analog broadcasting standards.

Password

A stored 4-digit number that allows access to parental control features.

Region Code

Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

SDTV (standard definition TV)

Standard digital format that is similar to the NTSC picture quality.

☑ Maintenance

Cabinet Cleaning

- Wipe the front panel and other exterior surfaces of the unit with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the unit. Such chemicals may cause damage and discoloration to the exposed surfaces.

Panel Cleaning

Wipe the panel with a soft cloth. Before cleaning the panel, disconnect the power cord.

Servicing

Should your unit become inoperative, do not try to correct the problem yourself. There are no user serviceable parts inside. Turn off the unit, unplug the power cord and call our toll free customer support line found on the cover of this manual to locate an authorized service center.

Degaussing

A degaussing circuit in this unit clears up color errors on the TV screen. Color errors occur when there is any excess magnetism close to the unit. This circuit is designed to operate once when the unit is first plugged in. If you see minor color errors on the TV screen, unplug the unit for approximately 30 minutes. When you plug the unit again, the degaussing circuit will operate to clear errors. Take this step any time the TV screen is accidentally magnetized or when you move the unit.

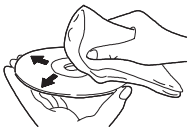
If the Laser Optical Pickup Unit is Dirty

If the unit still does not perform properly when it is operated, while referring to the relevant sections and to "Troubleshooting Guide" in this owner's manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

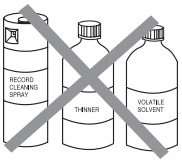
Disc Handling

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.

- Always store the disc in its protective case when it is not used.
- To clean-off, use a soft cloth.
- Do not use a hard cloth since this will mar the disc.
- Wipe the disc in a straight line from center to edge.
- Never wipe with a circular motion.



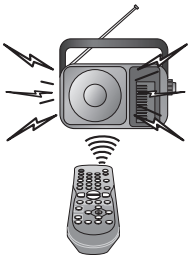
- Do not use detergent or abrasive cleaning agents.



IR Signal Check

If the remote control is not working properly, you can use an AM radio or digital camera (including a cellular phone with built-in camera) to see if it is sending out an infrared signal.

- **With an AM radio**:
  Tune the AM radio station to a non-broadcasting frequency. Point the remote control towards it, push any button and listen. If the sound from the radio flutters, it is receiving the remote control's infrared signal.



- **With a digital camera**
  (including built-in cell phone cameras):
  Point a digital camera towards the remote control. Push any button on the remote control and look through the digital camera. If the infrared light appears through the camera, the remote control is working.

☑ Cable Channel Designations

If you subscribe to cable TV, the channels are displayed as 1-135. Cable companies often designate channels with letters or letter-number combinations. Please check with your local cable company. The following is a chart of common cable channel designations.

CATV channel	5A	2	3	4	5	6	7	8	9	10	11	12	13	A	B	C	D	E	F	G	H
TV Display	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
CATV channel	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	W+1	W+2	W+3	W+4	W+5	W+6
TV Display	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
CATV channel	W+7	W+8	W+9	W+10	W+11	W+12	W+13	W+14	W+15	W+16	W+17	W+18	W+19	W+20	W+21	W+22	W+23	W+24	W+25	W+26	W+27
TV Display	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
CATV channel	W+28	W+29	W+30	W+31	W+32	W+33	W+34	W+35	W+36	W+37	W+38	W+39	W+40	W+41	W+42	W+43	W+44	W+45	W+46	W+47	W+48
TV Display	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
CATV channel	W+49	W+50	W+51	W+52	W+53	W+54	W+55	W+56	W+57	W+58	A-5	A-4	A-3	A-2	A-1	W+59	W+60	W+61	W+62	W+63	W+64
TV Display	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
CATV channel	W+65	W+66	W+67	W+68	W+69	W+70	W+71	W+72	W+73	W+74	W+75	W+76	W+77	W+78	W+79	W+80	W+81	W+82	W+83	W+84	W+85
TV Display	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126
CATV channel	W+86	W+87	W+88	W+89	W+90	W+91	W+92	W+93	W+94												
TV Display	127	128	129	130	131	132	133	134	135												

☑ General Specifications

TV

TV format: ATSC / NTSC-M TV Standard

Closed caption system:
§15.122/FCC (digital CC)
§15.119/FCC (analog CC)

Channel coverage (ATSC/NTSC):
Terrestrial **VHF:** 2~13
UHF: 14 ~ 69
CATV: 2~13, A~W,
W+1~W+94 (analog W+1~W+84),
A-5~A-1, 5A

Tuning system: Channel frequency synthesized tuning system

Channel access: Direct access keyboard,
Programmable scan, and up/down

DVD

Discs (playback compatibility):
DVD video, DVD-RW/-R,
DVD+RW/+R, audio CD, CD-RW/-R

Frequency response:
DVD (linear sound): 20 Hz to 20 kHz (sample rate: 48 kHz)
20 Hz to 44 kHz (sample rate: 96 kHz)
CD: 20 Hz to 20 kHz

Signal-to-noise ratio (S/N ratio):
CD: 75 dB (JEITA)

Total distortion factor:
DVD: 1 kHz 0.07% (JEITA)
CD: 1 kHz 0.07% (JEITA)

☑ Electrical Specification

Sound output: 1W, 8Ω x 2

☑ Other Specifications

Terminals:
Antenna input: VHF/UHF/CATV 75Ω unbalanced (F-type)
Video input: RCA jack x 1 1Vp-p (75Ω)
Audio input: RCA jack x 2 500mV rms
Coaxial digital audio output:
RCA jack x 1 500mVp-p (75Ω)
Headphone: 1/8 inches (3.5mm)

Remote control: Digital encoded
infrared light system

Operating temperature:
41°F (5°C) to 104°F (40°C)

Power requirements:
120 V AC +/- 10%, 60 Hz +/- 0.5%

Power consumption(Maximum):
80W

Picture tube: 20 inches

Dimensions: H : 18.0 inches (457mm)
W : 20.2 inches (512mm)
D : 19.9 inches (505mm)

Weight: 46.2 lbs. (21.0kg)

- Designs and specifications are subject to change without notice and without our legal obligation.
- If there is a discrepancy between languages, the default language will be English.

LIMITED WARRANTY

This form describes the protection You will have under this Limited Warranty.

LIMITED WARRANTY PERIOD:

This Limited Warranty begins on the date of purchase of the Covered Product and continues for a period of six months.

WHAT IS COVERED:

Meijer will pay the cost of labor and repair or replacement parts in the event Your Covered Product fails to operate as a result of a mechanical or electrical failure caused by defects in workmanship and/or materials. A mechanical or electrical failure caused by a direct result of a power surge is also covered. Parts will be replaced with those of like kind and quality, and may be new or remanufactured. If the Covered Product cannot be repaired, if the cost of the repair exceeds the original purchase price or if parts are not available due to the age of the Covered Product or discontinued by the manufacturer, the Covered Product will be replaced with a product of similar features.

WHERE YOU ARE COVERED:

Coverage under this Limited Warranty is limited to the United States of America, including the District of Columbia. It does not include any Canadian or U.S. Territories including Guam, Puerto Rico, or U.S. Virgin Islands.

WHAT IS NOT COVERED:

- PRODUCTS NOT ORIGINALLY COVERED BY A MANUFACTURER'S WARRANTY;
- ITEMS THAT ARE STILL COVERED BY THE MANUFACTURER'S WARRANTY, REGARDLESS OF WHETHER THE MANUFACTURER HONORS SUCH WARRANTY;
- PERIODIC CHECKUPS AND/OR PREVENTIVE MAINTENANCE AS DIRECTED BY THE MANUFACTURER EXCEPT AS PROVIDED HEREIN;
- INHERENT PRODUCT DEFECTS THAT ARE THE RESPONSIBILITY OF THE MANUFACTURER OR PARTS FAILURE DUE TO A MANUFACTURER'S RECALL;
- ANY AND ALL PRE-EXISTING CONDITIONS THAT OCCUR PRIOR TO THE EFFECTIVE DATE OF THIS LIMITED WARRANTY AND/OR ANY COSTS TO REPAIR ANY PRODUCT SOLD "AS-IS" INCLUDING BUT NOT LIMITED TO FLOOR MODELS, DEMONSTRATION MODELS, ETC;
- PARTS OR REPAIRS DUE TO NORMAL WEAR AND TEAR AND ITEMS NORMALLY DESIGNED TO BE PERIODICALLY REPLACED BY THE PURCHASER DURING THE COVERED PRODUCT'S LIFE, INCLUDING BUT NOT LIMITED TO BATTERIES, LIGHT BULBS, ETC.;
- DAMAGE FROM ACCIDENT, ABUSE, MISUSE, MISHANDLING, INTRODUCTION OF FOREIGN OBJECTS INTO THE COVERED PRODUCT, UNAUTHORIZED MODIFICATIONS OR ALTERATIONS TO A COVERED PRODUCT, FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS, AND EXTERNAL CAUSES INCLUDING THIRD PARTY ACTIONS, FIRE, THEFT, INSECTS, ANIMALS, EXPOSURE TO WEATHER CONDITIONS, WINDSTORM, SAND, DIRT, HAIL, EARTHQUAKE, FLOOD, WATER, ACTS OF GOD OR CONSEQUENTIAL LOSS OF ANY NATURE;
- LOSS OR DAMAGE CAUSED BY WAR, INVASION OR ACT OF FOREIGN ENEMY, HOSTILITIES, CIVIL WAR, REBELLION, RIOT, STRIKE, LABOR DISTURBANCE, LOCKOUT, OR CIVIL COMMOTION;
- INCIDENTAL, CONSEQUENTIAL OR SECONDARY DAMAGES OR DELAY IN RENDERING SERVICE UNDER THIS LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE COVERED PRODUCT IS AT AN AUTHORIZED SERVICE CENTER OR OTHERWISE AWAITING PARTS;
- ANY PRODUCT USED IN A COMMERCIAL SETTING OR RENTAL BASIS;
- FAILURES THAT OCCUR OUTSIDE OF THE 50 STATES OF THE UNITED STATES OF AMERICA, INCLUDING THE DISTRICT OF COLUMBIA;
- NONFUNCTIONAL OR AESTHETIC PARTS INCLUDING BUT NOT LIMITED TO PLASTIC PARTS, KNOBS, ROLLERS, BASKETS, SCRATCHES, PEELING AND DENTS;
- UNAUTHORIZED REPAIRS AND/OR PARTS;
- COST OF INSTALLATION, SET-UP, DIAGNOSTIC CHARGES, REMOVAL OR REINSTALLATION OF THE COVERED PRODUCT, EXCEPT AS PROVIDED HEREIN;
- ACCESSORIES USED IN CONJUNCTION WITH A COVERED PRODUCT;
- ANY LOSS OTHER THAN A COVERED BREAKDOWN OF THE COVERED PRODUCT;
- SERVICE WHERE NO PROBLEM CAN BE FOUND;
- BREAKDOWNS WHICH ARE NOT REPORTED WITHIN THE TERM OF THIS LIMITED WARRANTY;
- IMPROPER INSTALLATION OF COMPONENTS OR PERIPHERALS;
- CORRUPTION OF ANY RECORDING MEDIA, INCLUDING ANY PROGRAM, DATA OR SETUP INFORMATION RESIDENT ON ANY HARD DRIVES AND INTERNAL OR EXTERNAL REMOVABLE STORAGE DEVICES, AS A RESULT OF THE MALFUNCTIONING OR DAMAGE OF AN OPERATING PART, OR AS A RESULT OF ANY REPAIRS OR REPLACEMENT UNDER THIS LIMITED WARRANTY;
- DAMAGE TO CLOTHING;
- COLOR FADING OF PICTURE FOR ANY TELEVISION;
- BURNED-IN PHOSPHOR (INCLUDING IMAGE GHOSTING), PIXEL BURNOUT NOT IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

WHAT TO DO WHEN YOUR PRODUCT FAILS TO OPERATE:

- Call the 24-hour customer service toll-free number at (866) 845-9436.

Many oversights, which are not covered under this Limited Warranty, can be due to simple circumstances such as the Covered Product not being switched on, being unplugged, or a fuse blown at the junction box. For a Covered Product that uses batteries as the primary power supply, or a remote control unit, please check that the batteries do not need replacing or recharging.

SERVICE DELIVERABLES:

There is no deductible required to obtain service for Your Covered Product.

OTHER PROVISIONS:

Limit of Liability:

The limit of liability under this Limited Warranty is the least of the cost of (1) the purchase price of the Covered Product excluding tax and delivery costs or (2) authorized repairs not to exceed the purchase price of the Covered Product or (3) replacement of the Covered Product with similar features or (4) reimbursement for authorized repairs or replacement. Upon replacement, there is no longer any obligation for the replaced product under this Limited Warranty.

Limitations of Implied Warranty:

All Implied Warranties which may arise under state law, including all Implied Warranties of Merchantability or Fitness for a particular purpose, are limited to the duration of this Warranty and do not cover incidental or consequential damages. Some states do not allow limitations on how long an Implied Warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to You. This Warranty gives You specific legal rights, and You may also have other rights which vary from state to state.

Transferability and Renewals:

This Limited Warranty is not transferable or renewable.

Subrogation:

If We pay for a loss, We may require You to assign Us Your rights of recovery against others. We will not pay for a loss if You impair these rights to recover. Your rights to recover from others may not be waived.

Arbitration:

In the event of a disagreement between You and Us concerning costs, either of us may make a written demand for arbitration. This must be done within sixty (60) days after the day You filed Your claim. Each of us will select an arbitrator. The two arbitrators will select an umpire. Each of us will pay the expenses of the arbitrator We select. The expenses of the umpire will be shared equally. Unless both of us agree otherwise, arbitration will take place in the county and state in which You live. Local rules apply. A majority decision will be binding.

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